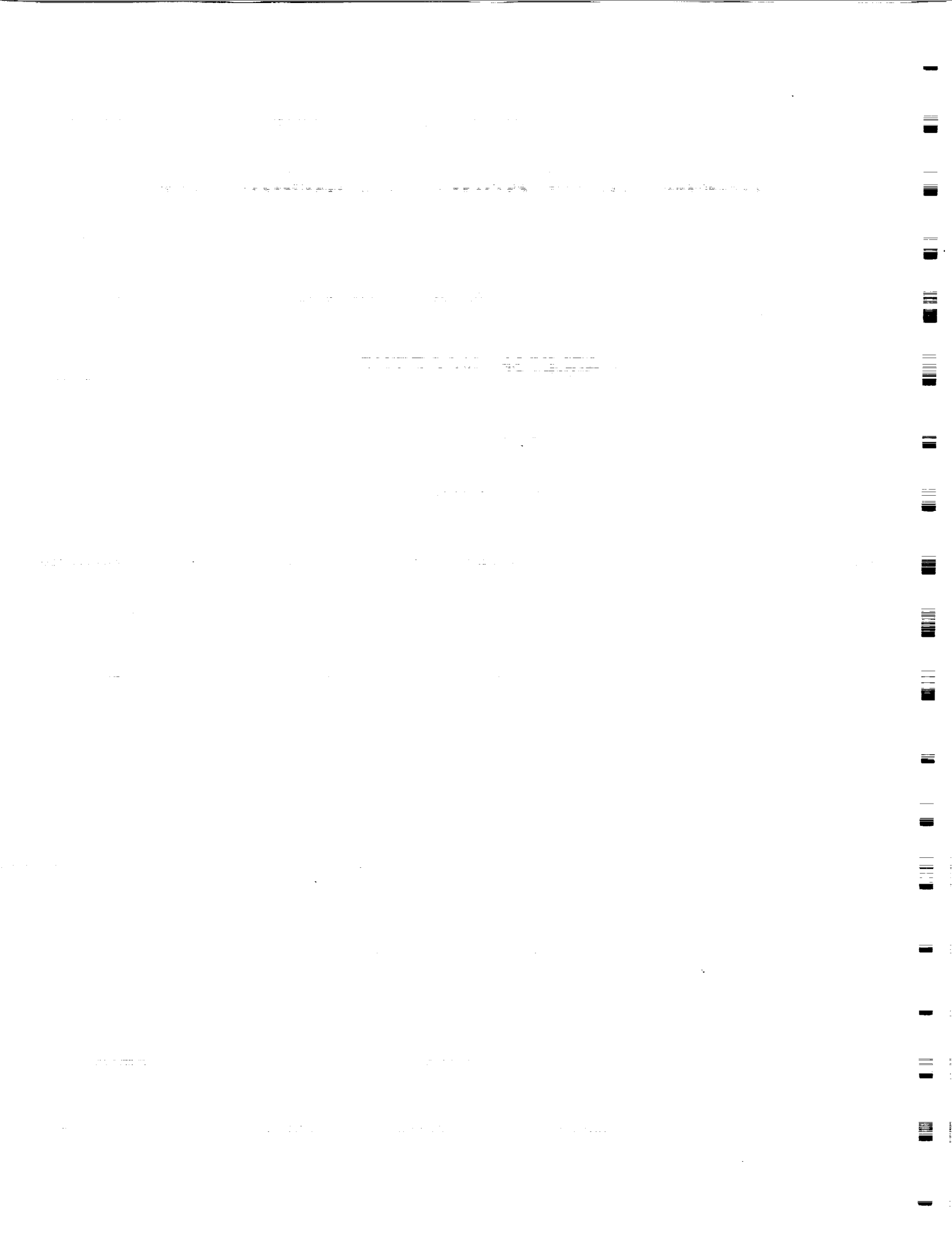


INDEPENDENT ORBITER ASSESSMENT

**ASSESSMENT OF THE
COMMUNICATION
AND TRACKING
SUBSYSTEM
VOLUME 3 OF 3**

18 MARCH 1988



APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8108
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8108
ITEM: TV CAMERA ALC CMD SWITCH (PEAK)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 / 3]	[]	[]	[]	
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8109
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8109
ITEM: TV CAMERA ALC CMD SWITCH (NORM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8110
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8110
ITEM: TV CAMERA ALC CMD SWITCH (NORM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8111
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8111
ITEM: TV CAMERA ALC CMD SWITCH (AVG)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8112
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8112
ITEM: TV CAMERA ALC CMD SWITCH (AVG)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8113
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8113
ITEM: TV CAMERA GAMMA CMD SWITCH (WHITE STRCH)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[/]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[N / N]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8114
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8114
ITEM: TV CAMERA GAMMA CMD SWITCH (WHITE STRCH)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8115
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8115
ITEM: TV CAMERA GAMMA CMD SWITCH (NORM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8116
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8116
ITEM: TV CAMERA GAMMA CMD SWITCH (NORM)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8117
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8117
ITEM: TV CAMERA GAMMA CMD SWITCH (BLACK STRCH)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8118
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8118
ITEM: TV CAMERA GAMMA CMD SWITCH (BLACK STRCH)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8119
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8119
ITEM: TV VIDEO INPUT PBI [FLT DECK TVC SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8120
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8120
ITEM: TV VIDEO INPUT PBI [FLT DECK TVC SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8121
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8121
ITEM: TV VIDEO INPUT PBI [MID DECK TVC SELECT] SW
LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8122
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8122
ITEM: TV VIDEO INPUT PBI [MID DECK TVC SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

RETENTION CIL

RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COMPARIBLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8123
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8123
ITEM: TV VIDEO INPUT PBI [TVC A FWD BAY SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. FAILURE TO PROVIDE THIS FUNCTION WOULD RESULT IN LOSS OF TVC. UP CMD PROVIDES UNLIKE REDUNDANCY. SECOND FAILURE COULD RESULT IN LOSS OF CCTV FUNCTION AND LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8124
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8124
ITEM: TV VIDEO INPUT PBI [TVC A SELECT] SW
LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. FAILURE TO PROVIDE THIS FUNCTION WOULD RESULT IN LOSS OF TVC. UP CMD PROVIDES UNLIKE REDUNDANCY. SECOND FAILURE COULD RESULT IN LOSS OF CCTV FUNCTION AND LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8125
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8125
ITEM: TV VIDEO INPUT PBI [TVC B KEEL/EVA SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. FAILURE TO PROVIDE THIS FUNCTION WOULD RESULT IN LOSS OF TVC. UP CMD PROVIDES UNLIKE REDUNDANCY. SECOND FAILURE COULD RESULT IN LOSS OF CCTV FUNCTION AND LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8126
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8126
ITEM: TV VIDEO INPUT PBI [TVC B SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. FAILURE TO PROVIDE THIS FUNCTION WOULD RESULT IN LOSS OF TVC. UP CMD PROVIDES UNLIKE REDUNDANCY. SECOND FAILURE COULD RESULT IN LOSS OF CCTV FUNCTION AND LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8127
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8127
ITEM: TV VIDEO INPUT PBI [TVC C AFT BAY SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. FAILURE TO PROVIDE THIS FUNCTION WOULD RESULT IN LOSS OF TVC. UP CMD PROVIDES UNLIKE REDUNDANCY. SECOND FAILURE COULD RESULT IN LOSS OF CCTV FUNCTION AND LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8128
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8128
ITEM: TV VIDEO INPUT PBI [TVC C SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. FAILURE TO PROVIDE THIS FUNCTION
WOULD RESULT IN LOSS OF TVC. UP CMD PROVIDES UNLIKE REDUNDANCY.
SECOND FAILURE COULD RESULT IN LOSS OF CCTV FUNCTION AND LOSS OF
VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8129
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8129
ITEM: TV VIDEO INPUT PBI [TVC D RMS STBD SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. FAILURE TO PROVIDE THIS FUNCTION
WOULD RESULT IN LOSS OF TVC. UP CMD PROVIDES UNLIKE REDUNDANCY.
SECOND FAILURE COULD RESULT IN LOSS OF CCTV FUNCTION AND LOSS OF
VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8130
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8130
ITEM: TV VIDEO INPUT PBI [TVC D SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A] (ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. FAILURE TO PROVIDE THIS FUNCTION WOULD RESULT IN LOSS OF TVC. UP CMD PROVIDES UNLIKE REDUNDANCY. SECOND FAILURE COULD RESULT IN LOSS OF CCTV FUNCTION AND LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8131
NASA FMEA #:

NASA DATA:

BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8131
ITEM: TV VIDEO INPUT PBI [RMS TVC SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. LOSS OF THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8132
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8132
ITEM: TV VIDEO INPUT PBI [RMS TVC SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. LOSS OF THIS FUNCTION COULD RESULT
IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8133
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8133
ITEM: TV VIDEO INPUT PBI [P/L 1,2,OR 3 TVC SELECT] SW
LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. NOT CRITICAL.

ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8134
 NASA FMEA #:

NASA DATA:
 BASELINE []
 NEW []

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 8134
 ITEM: TV VIDEO INPUT PBI [P/L 1,2,OR 3 TVC SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[/]		[]	[]	[]	[] *
IOA	[3 /3]		[]	[]	[]	[]
COMPARE	[N /N]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8135
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8135
ITEM: TV VIDEO INPUT PBI [MUX 1 & MUX 2 SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[/]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[N / N]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8136
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8136
ITEM: TV VIDEO INPUT PBI [MUX 1 & MUX 2 SELECT] SW
LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COMPARABLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8137
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8137
ITEM: TV VIDEO INPUT PBI [TEST SELECT] SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8138
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8138
ITEM: TV VIDEO INPUT PBI [TEST SELECT] SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COMPARABLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8139
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8139
ITEM: TV VIDEO OUTPUT PBI [MUX SELECT] SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8140
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8140
ITEM: TV VIDEO OUTPUT PBI [MUX SELECT] SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8141
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8141
ITEM: TV VIDEO OUTPUT PBI [MON SELECT] SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

LOSS OF ALL CAPABILITY TO PROVIDE MONITOR CAPABILITY COULD RESULT
IN LOSS OF CCTV FUNCTION RESULTING IN POSSIBLE LOSS OF VEHICLE
AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8142
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8142
ITEM: TV VIDEO OUTPUT PBI [MON SELECT] SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

LOSS OF ALL CAPABILITY TO PROVIDE MONITOR CAPABILITY COULD RESULT
IN LOSS OF CCTV FUNCTION RESULTING IN POSSIBLE LOSS OF VEHICLE
AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8143
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8143
ITEM: TV VIDEO OUTPUT PBI [P/L SELECT] SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8144
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8144
ITEM: TV VIDEO OUTPUT PBI [P/L SELECT] SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8145
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8145
ITEM: TV VIDEO OUTPUT PBI [DOWNLINK SELECT] SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8146
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8146
ITEM: TV VIDEO OUTPUT PBI [DOWNLINK SELECT] SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8147
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8147
ITEM: TVC A PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8148
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8148
ITEM: TVC A PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8149
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8149
ITEM: TVC A NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8150
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8150
ITEM: TVC A NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8151
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8151
ITEM: TVC A AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8152
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8152
ITEM: TVC A AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8153
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8153
ITEM: TVC B PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 / 3]	[]	[]	[]	
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8154
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8154
ITEM: TVC B PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8155
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8155
ITEM: TVC B NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	*
IOA	[3 / 3]	[]	[]	[]	
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8156
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8156
ITEM: TVC B NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8157
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8157
ITEM: TVC B AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8158
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8158
ITEM: TVC B AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8159
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8159
ITEM: TVC C PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8160
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8160
ITEM: TVC C PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[- /] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8161
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8161
ITEM: TVC C NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[]	[]	[]	[]	[]	[] *
IOA	[3]	[/3]	[]	[]	[]	[]
COMPARE	[N]	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8162
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8162
ITEM: TVC C NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8163
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8163
ITEM: TVC C AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8164
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8164
ITEM: TVC C AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8165
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8165
ITEM: TVC D PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8166
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8166
ITEM: TVC D PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8167
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8167
ITEM: TVC D NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8168
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8168
ITEM: TVC D NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8169
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8169
ITEM: TVC D AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8170
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8170
ITEM: TVC D AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8171
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8171
ITEM: RMS WRIST TVC PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8172
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8172
ITEM: RMS WRIST TVC PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8173
NASA FMEA #:

NASA DATA: ---
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8173
ITEM: RMS WRIST TVC NORM ALC CONTROL SW (PEAK)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8174
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8174
ITEM: RMS WRIST TVC NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8175
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8175
ITEM: RMS WRIST TVC AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8176
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8176
ITEM: RMS WRIST TVC AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8177
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8177
ITEM: RMS ELBOW TVC PEAK ALC CONTROL SW (PEAK)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8178
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8178
ITEM: RMS ELBOW TVC PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8179
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8179
ITEM: RMS ELBOW TVC NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8180
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8180
ITEM: RMS ELBOW TVC NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8181
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8181
ITEM: RMS ELBOW TVC AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8182
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8182
ITEM: RMS ELBOW TVC AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8183
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8183
ITEM: FLT DECK TVC PEAK ALC CONTROL SW (PEAK)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8184
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8184
ITEM: FLT DECK TVC PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8185
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8185
ITEM: FLT DECK TVC NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8186
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8186
ITEM: FLT DECK TVC NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8187
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8187
ITEM: FLT DECK TVC AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8188
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8188
ITEM: FLT DECK TVC AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8189
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8189
ITEM: MID FLT DECK TVC PEAK ALC CONTROL SW (PEAK)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8190
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8190
ITEM: MID DECK TVC PEAK ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8191
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8191
ITEM: MID FLT DECK TVC NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8192
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8192
ITEM: MID DECK TVC NORM ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8193
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8193
ITEM: MID FLT DECK TVC AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8194
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8194
ITEM: MID DECK TVC AVG ALC CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8195
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8195
ITEM: TVC A WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8196
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8196
ITEM: TVC A WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8197
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8197
ITEM: TVC A NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8198
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8198
ITEM: TVC A NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8199
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8199
ITEM: TVC A BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8200
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8200
ITEM: TVC A BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8201
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8201
ITEM: TVC B WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8202
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8202
ITEM: TVC B WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8203
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8203
ITEM: TVC B NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8204
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8204
ITEM: TVC B NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8205
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8205
ITEM: TVC B BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8206
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8206
ITEM: TVC B BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8207
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8207
ITEM: TVC C WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8208
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8208
ITEM: TVC C WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8209
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8209
ITEM: TVC C NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8210
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8210
ITEM: TVC C NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8211
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8211
ITEM: TVC C BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[/]		[]	[]	[]	[] *
IOA	[3 /3]		[]	[]	[]	[]
COMPARE	[N /N]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8212
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8212
ITEM: TVC C BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8213
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8213
ITEM: TVC D WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8214
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8214
ITEM: TVC D WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8215
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8215
ITEM: TVC D NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[] --
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [']
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8216
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8216
ITEM: TVC D NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8217
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8217
ITEM: TVC D BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8218
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8218
ITEM: TVC D BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8219
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8219
ITEM: RMS WRIST TVC WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8220
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8220
ITEM: RMS WRIST TVC WHITE STRCH GAMMA CONTROL SWITCH
LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8221
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8221
ITEM: RMS WRIST TVC NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8222
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8222
ITEM: RMS WRIST TVC NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8223
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8223
ITEM: RMS WRIST TVC BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8224
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8224
ITEM: RMS WRIST TVC BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8225
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8225
ITEM: RMS ELBOW TVC A WHITE STRCH GAMMA CONTROL SWITCH
LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8226
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8226
ITEM: RMS ELBOW TVC A WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8227
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8227
ITEM: RMS ELBOW TVC A NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[]	[/]	[]	[]	[]	[] *
IOA	[3]	[/3]	[]	[]	[]	[]
COMPARE	[N]	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8228
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8228
ITEM: RMS ELBOW TVC A NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8229
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8229
ITEM: RMS ELBOW TVC A BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8230
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8230
ITEM: RMS ELBOW TVC A BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8231
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8231
ITEM: FLT DECK TVC WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[]	[/]	[]	[]	[]	[] *
IOA	[3]	[/3]	[]	[]	[]	[]
COMPARE	[N]	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8232
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8232
ITEM: FLT DECK TVC WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8233
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8233
ITEM: FLT DECK TVC NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8234
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8234
ITEM: FLT DECK TVC NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8235
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8235
ITEM: FLT DECK TVC BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8236
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8236
ITEM: FLT DECK TVC BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8237
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8237
ITEM: MID DECK TVC WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	*
IOA	[3 /3]	[]	[]	[]	
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8238
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8238
ITEM: MID DECK TVC WHITE STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8239
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8239
ITEM: MID DECK TVC NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8240
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8240
ITEM: MID DECK TVC NORM GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8241
NASA FMEA #:

NASA DATA: _____
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8241
ITEM: MID DECK TVC BLACK STRCH GAMMA CONTROL SWITCH
LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY			REDUNDANCY SCREENS			CIL ITEM
	FLIGHT			A	B	C	
	HDW/FUNC						
NASA	[/]			[]	[]	[]	[] *
IOA	[3 /3]			[]	[]	[]	[]
COMPARE	[N /N]			[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8242
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8242
ITEM: MID DECK TVC BLACK STRCH GAMMA CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8243
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8243
ITEM: TVC A MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8244
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8244
ITEM: TVC A MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8245
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8245
ITEM: TVC B MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8246
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8246
ITEM: TVC B MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8247
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8247
ITEM: TVC C MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8248
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8248
ITEM: TVC C MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] . [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8249
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8249
ITEM: TVC D MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8250
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8250
ITEM: TVC D MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8251
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8251
ITEM: RMS WRIST TVC MONOCHROME LENS ASSY FOCUS CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM
THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8252
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8252
ITEM: RMS WRIST TVC MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8253
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8253
ITEM: RMS ELBOW TVC MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8254
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8254
ITEM: RMS ELBOW TVC MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[]
-----------	-------	-------	-------	-----

(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8255
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8255
ITEM: FLT DECK TVC MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8256
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8256
ITEM: FLT DECK TVC MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 / 3]	[]	[]	[]	
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8257
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8257
ITEM: MID DECK TVC MONOCHROME LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8258
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8258
ITEM: MID DECK TVC MONOCHROME LENS ASSY FOCUS CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8259
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8259
ITEM: TVC A MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8260
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8260
ITEM: TVC A MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8261
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8261
ITEM: TVC B MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8262
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8262
ITEM: TVC B MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8263
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8263
ITEM: TVC C MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8264
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8264
ITEM: TVC C MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8265
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8265
ITEM: TVC D MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P'] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8266
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8266
ITEM: TVC D MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8267
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8267
ITEM: RMS WRIST TVC MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS: NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8268
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8268
ITEM: RMS WRIST TVC MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8269
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8269
ITEM: RMS ELBOW TVC MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8270
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8270
ITEM: RMS ELBOW TVC MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8271
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8271
ITEM: FLT DECK TVC MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[/]		[]	[]	[]	[] *
IOA	[3 /3]		[]	[]	[]	[]
COMPARE	[N /N]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8272
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8272
ITEM: FLT DECK TVC MONOCHROME LENS ASSY ZOOM CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8273
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8273
ITEM: MID DECK TVC MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8274
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8274
ITEM: MID DECK TVC MONOCHROME LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8275
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8275
ITEM: TVC A MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILAURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8276
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8276
ITEM: TVC A MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILAURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8277
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8277
ITEM: TVC B MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILAURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8278
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8278
ITEM: TVC B MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILAURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8279
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8279
ITEM: TVC C MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILAURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8280
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8280
ITEM: TVC C MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILAURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8281
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8281
ITEM: TVC D MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILAURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8282
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8282
ITEM: TVC D MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILAURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8283
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8283
ITEM: RMS WRIST TVC MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8284
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8284
ITEM: RMS WRIST TVC MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8285
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8285
ITEM: RMS ELBOW TVC MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 /2R]	[P]	[P]	[P]	
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8286
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8286
ITEM: RMS ELBOW TVC MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8287
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8287
ITEM: FLT DECK TVC MONOCHROME LENS ASSY IRIS CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8288
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8288
ITEM: FLT DECK TVC MONOCHROME LENS ASSY IRIS CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8289
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8289
ITEM: MID DECK TVC MONOCHROME LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8290
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8290
ITEM: MID DECK TVC MONOCHROME LENS ASSY IRIS CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8291
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8291
ITEM: FLT DECK TVC WIDE ANGLE LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8292
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8292
ITEM: FLT DECK TVC WIDE ANGLE LENS ASSY FOCUS CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8293
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8293
ITEM: FLT DECK TVC WIDE ANGLE LENS ASSY ZOOM CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8294
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8294
ITEM: FLT DECK TVC WIDE ANGLE LENS ASSY ZOOM CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8295
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8295
ITEM: FLT DECK TVC WIDE ANGLE LENS ASSY IRIS CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[]	[/]	[]	[]	[]	[] *
IOA	[3]	[/3]	[]	[]	[]	[]
COMPARE	[N]	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8296
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8296
ITEM: FLT DECK TVC WIDE ANGLE LENS ASSY IRIS CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8297
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8297
ITEM: MID DECK TVC WIDE ANGLE LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8298
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8298
ITEM: MID DECK TVC WIDE ANGLE LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8299
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8299
ITEM: MID DECK TVC WIDE ANGLE LENS ASSY ZOOM CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[]	[]	[]	[]	[]	[] *
IOA	[3]	[/3]	[]	[]	[]	[]
COMPARE	[N]	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8300
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8300
ITEM: MID DECK TVC WIDE ANGLE LENS ASSY ZOOM CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 / 3]	[]	[]	[]	
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8301
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8301
ITEM: MID DECK TVC WIDE ANGLE LENS ASSY IRIS CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 /3]	[]	[]	[]	
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8302
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8302
ITEM: MID DECK TVC WIDE ANGLE LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8303
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8303
ITEM: TVC A COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8304
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8304
ITEM: TVC A COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8305
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8305
ITEM: TVC A COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8306
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8306
ITEM: TVC A COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8307
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8307
ITEM: TVC A COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8308
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8308
ITEM: TVC A COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8309
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8309
ITEM: TVC B COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8310
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8310
ITEM: TVC B COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8311
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8311
ITEM: TVC B COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8312
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8312
ITEM: TVC B COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8313
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8313
ITEM: TVC B COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8314
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8314
ITEM: TVC B COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8315
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8315
ITEM: TVC C COLOR LENS ASSY. FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A.]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8316
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8316
ITEM: TVC C COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8317
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8317
ITEM: TVC C COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8318
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8318
ITEM: TVC C COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8319
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8319
ITEM: TVC C COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8320
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8320
ITEM: TVC C COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8321
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8321
ITEM: TVC D COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

REPORT DATE 03/18/88

C-1414

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8322
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8322
ITEM: TVC D COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8323
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8323
ITEM: TVC D COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8324
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8324
ITEM: TVC D COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8325
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8325
ITEM: TVC D COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8326
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8326
ITEM: TVC D COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF CCTV AND SUBSEQUENT LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8327
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8327
ITEM: RMS WRIST TVC COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8328
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8328
ITEM: RMS WRIST TVC COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8329
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8329
ITEM: RMS WRIST TVC COLOR LENS ASSY ZOOM CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[]
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(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM
THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8330
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8330
ITEM: RMS WRIST TVC COLOR LENS ASSY ZOOM CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM
THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8331
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8331
ITEM: RMS WRIST TVC COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 /2R]	[P]	[P]	[P]	
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8332
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8332
ITEM: RMS WRIST TVC COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 /2R]	[P]	[P]	[P]	
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8333
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8333
ITEM: RMS ELBOW TVC COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[]
-----------	-------	-------	-------	-----

(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8334
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8334
ITEM: RMS ELBOW TVC COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[]
-----------	-------	-------	-------	-----

(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8335
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8335
ITEM: RMS ELBOW TVC COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8336
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8336
ITEM: RMS ELBOW TVC COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8337
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8337
ITEM: RMS ELBOW TVC COLOR LENS ASSY IRIS CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[]
-----------	-------	-------	-------	-----

(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM
THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8338
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8338
ITEM: RMS ELBOW TVC COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[]
-----------	-------	-------	-------	-----

(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF ALL CAPABILITY TO PERFORM THIS FUNCTION COULD RESULT IN LOSS OF MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8339
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8339
ITEM: FLT DECK TVC COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8340
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8340
ITEM: FLT DECK TVC COLOR LENS ASSY FOCUS CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8341
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8341
ITEM: FLT DECK TVC COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8342
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8342
ITEM: FLT DECK TVC COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8343
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8343
ITEM: FLT DECK TVC COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8344
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8344
ITEM: FLT DECK TVC COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8345
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8345
ITEM: MID DECK TVC COLOR LENS ASSY FOCUS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8346
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8346
ITEM: MID DECK TVC COLOR LENS ASSY FOCUS CONTROL
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8347
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8347
ITEM: MID DECK TVC COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8348
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8348
ITEM: MID DECK TVC COLOR LENS ASSY ZOOM CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8349
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8349
ITEM: MID DECK TVC COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8350
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8350
ITEM: MID DECK TVC COLOR LENS ASSY IRIS CONTROL SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8351
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8351
ITEM: FLT DECK VIEWFINDER MONITOR PWR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8352
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8352
ITEM: FLT DECK VIEWFINDER MONITOR PWR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8353
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8353
ITEM: MID DECK VIEWFINDER MONITOR PWR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8354
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8354
ITEM: MID DECK VIEWFINDER MONITOR PWR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8355
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8355
ITEM: FLT DECK VIEWFINDER MONITOR PEAK SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[]	[]	[]	[]	[]	[] *
IOA	[3]	[/3]	[]	[]	[]	[]
COMPARE	[N]	[/N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8356
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8356
ITEM: FLT DECK VIEWFINDER MONITOR PEAK SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8357
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8357
ITEM: MID DECK VIEWFINDER MONITOR PEAK SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8358
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8358
ITEM: MID DECK VIEWFINDER MONITOR PEAK SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8359
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8359
ITEM: FLT DECK VIEWFINDER MONITOR BRIGHTNESS AND
CONTRAST CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8360
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8360
ITEM: FLT DECK VIEWFINDER MONITOR BRIGHTNESS AND
CONTRAST CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 /3]	[]	[]	[]	
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8361
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8361
ITEM: MID DECK VIEWFINDER MONITOR BRIGHTNESS AND
CONTRAST CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8362
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8362
ITEM: MID DECK VIEWFINDER MONITOR BRIGHTNESS AND
CONTRAST CONTROL SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8363
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8363
ITEM: CONSOLE MONITOR PWR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF SECOND MONITOR COULD PREVENT TV SCENE VIEWING AND TVC POINTING AND ADJUSTMENTS CAPABILITY RESULTING IN LOSS OF CCTV FUNCTION AND POSSIBLE LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8364
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8364
ITEM: CONSOLE MONITOR PWR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF SECOND MONITOR COULD PREVENT TV SCENE VIEWING AND TVC POINTING AND ADJUSTMENTS CAPABILITY RESULTING IN LOSS OF CCTV FUNCTION AND POSSIBLE LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8365
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8365
ITEM: CONSOLE MONITOR X-HAIR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8366
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8366
ITEM: CONSOLE MONITOR X-HAIR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8367
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8367
ITEM: CONSOLE MONITOR SYNC SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8368
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8368
ITEM: CONSOLE MONITOR SYNC SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A] (ADD/DELETE)
-----------	-------	-------	-------	-----------------------

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF SECOND MONITOR COULD PREVENT TV SCENE VIEWING AND POINTING AND ADJUSTMENTS CAPABILITY RESULTING IN LOSS OF CCTV FUNCTION AND POSSIBLE LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8369
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8369
ITEM: CONSOLE MONITOR DATA SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8370
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8370
ITEM: CONSOLE MONITOR DATA SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8371
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8371
ITEM: CONSOLE MONITOR SCAN SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8372
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8372
ITEM: CONSOLE MONITOR SCAN SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8373
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8373
ITEM: CONSOLE MONITOR SOURCE SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8374
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8374
ITEM: CONSOLE MONITOR SOURCE SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF SECOND MONITOR COULD PREVENT TV SCENE VIEWING AND POINTING AND ADJUSTMENTS CAPABILITY RESULTING IN LOSS OF CCTV FUNCTION AND POSSIBLE LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8375
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8375
ITEM: CONSOLE MONITOR BRIGHTNESS AND CONTRAST CONTROL
SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 /3]	[]	[]	[]	
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COUNTERPART NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8376
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 8376
ITEM: CONSOLE MONITOR BRIGHTNESS AND CONTRAST CONTROL
SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA CCTV FMEA. LOSS OF SECOND MONITOR COULD PREVENT TV SCENE VIEWING AND TVC POINTING AND ADJUSTMENTS CAPABILITY RESULTING IN LOSS OF CCTV FUNCTION AND POSSIBLE LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8501
NASA FMEA #: 05-6PK-20203-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8501
ITEM: RCU 3A CIRCUIT BREAKER (CB 37 & CB 42)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[2 /1R]	[P]	[F]	[P]	[X]
COMPARE	[N /N]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

SECOND FAILURE COULD CAUSE LOSS OF CCTV FUNCTION WITH POTENTIAL
LOSS OF VEHICLE AND CREW.

APPENDIX C

ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8502
NASA FMEA #: 05-6PK-20203-1

NASA DATA:
 BASELINE [X]
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8502
ITEM: RCU 3A CIRCUIT BREAKER (CB 37 & CB 42)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
FLIGHT HDW/FUNC		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /3] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

FAILED CLOSED WOULD ALLOW NORMAL OPERATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8503
NASA FMEA #: 05-6PK-20204-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8503
ITEM: MON 3A CIRCUIT BREAKER (CB 38 & CB 43)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

MONITORS NEEDED TO POINT AND ADJUST TVCS. SECOND FAILURE COULD CAUSE LOSS OF CCTV FUNCTION WITH POTENTIAL LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88 NASA DATA:
 ASSESSMENT ID: COMTRK-8504 BASELINE [X]
 NASA FMEA #: 05-6PK-20204-1 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 8504
 ITEM: MON 3A CIRCUIT BREAKER (CB 38 & CB 43)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /3] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE [X]

REMARKS:
 FAILED CLOSED WOULD ALLOW NORMAL OPERATION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88 NASA DATA:
ASSESSMENT ID: COMTRK-8505 BASELINE []
NASA FMEA #: 05-6PK-20201-1 NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8505
ITEM: CB 39 FWD BAY TVC & P/T (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]
RECOMMENDATIONS: (If different from NASA)					
	[2 /1R]	[P]	[P]	[P]	[A] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

OPEN FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL
CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS OF
VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88 NASA DATA:
ASSESSMENT ID: COMTRK-8506 BASELINE [X]
NASA FMEA #: 05-6PK-20201-1 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8506
ITEM: CB 39 FWD BAY TVC & P/T (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

FAILED CLOSED RETAINS USE OF TVC AND CRITICALITIES ARE IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8507
NASA FMEA #: 05-6PK-20202-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8507
ITEM: CB 40 FWD BAY TVC HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

ONE FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL
CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS OF
VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
 ASSESSMENT ID: COMTRK-8508
 NASA FMEA #: 05-6PK-20202-1

NASA DATA:
 BASELINE [X]
 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
 MDAC ID: 8508
 ITEM: CB 40 FWD BAY TVC HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:

FAILED CLOSED RETAINS USE OF TVC CONSIDERING THERMOSTAT CONTROL
 OF HTR. CRITICALITIES AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8509
NASA FMEA #: 05-6PK-20202-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8509
ITEM: CB 41 FWD BAY P/T HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

OPEN FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL
CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS OF
VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8510
NASA FMEA #: 05-6PK-20202-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8510
ITEM: CB 41 FWD BAY P/T HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

FAILED CLOSED RETAINS USE OF TVC CONSIDERING THERMOSTAT CONTROL
OF HTR. CRITICALITIES AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8511
NASA FMEA #: 05-6PK-20201-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8511
ITEM: CB 34 AFT BAY TVC & P/T (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

OPEN FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL
CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS OF
VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8512
NASA FMEA #: 05-6PK-20201-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8512
ITEM: CB 34 AFT BAY TVC & P/T (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

FAILED CLOSED RETAINS USE OF TVC CONSIDERING THERMOSTAT CONTROL
OF HTR. CRITICALITIES AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8513
NASA FMEA #: 05-6PK-20202-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8513
ITEM: CB 35 AFT BAY TVC HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY	REDUNDANCY SCREENS			CIL
	FLIGHT HDW/FUNC	A	B	C	ITEM
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

OPEN FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL
CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS OF
VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8514
NASA FMEA #: 05-6PK-20202-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8514
ITEM: CB 35 AFT BAY TVC HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

FAILED CLOSED RETAINS USE OF TVC CONSIDERING THERMOSTAT CONTROL
OF HTR. CRITICALITIES AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8515
NASA FMEA #: 05-6PK-20202-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8515
ITEM: CB 36 AFT BAY P/T HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

OPEN FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL
CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS OF
VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8516
NASA FMEA #: 05-6PK-20202-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8516
ITEM: CB 36 AFT BAY P/T HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

FAILED CLOSED RETAINS USE OF TVC CONSIDERING THERMOSTAT CONTROL
OF HTR. CRITICALITIES AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8517
NASA FMEA #: 05-6PK-20201-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8517
ITEM: CB 45 KEEL/EVA TVC & P/T (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

OPEN FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL
CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS OF
VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88 NASA DATA:
ASSESSMENT ID: COMTRK-8518 BASELINE [X]
NASA FMEA #: 05-6PK-20201-1 NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8518
ITEM: CB 45 KEEL/EVA TVC & P/T (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

FAILED CLOSED RETAINS USE OF TVC CONSIDERING THERMOSTAT CONTROL
OF HTR. CRITICALITIES AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8519
NASA FMEA #: 05-6PK-20201-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8519
ITEM: CB 46 KEEL/EVA TVC HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

OPEN FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL
CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS OF
VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8520
NASA FMEA #: 05-6PK-20202-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8520
ITEM: CB 46 KEEL/EVA TVC HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

FAILED CLOSED RETAINS USE OF TVC CONSIDERING THERMOSTAT CONTROL
OF HTR. CRITICALITIES AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8521
NASA FMEA #: 05-6PK-20202-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8521
ITEM: CB 47 KEEL/EVA P/T HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	* [X]
IOA	[2 /1R]	[P]	[P]	[P]	
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

OPEN FAILURE COULD RESULT IN LOSS OF MISSION. LOSS OF ALL
CAPABILITY TO PERFORM CCTV FUNCTION COULD RESULT IN LOSS OF
VEHICLE AND CREW.

REPORT DATE 03/18/88

C-1490

C-4

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8522
NASA FMEA #: 05-6PK-20202-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8522
ITEM: CB 47 KEEL/EVA P/T HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

FAILED CLOSED RETAINS USE OF TVC CONSIDERING THERMOSTAT CONTROL
OF HTR. CRITICALITIES AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8523
NASA FMEA #: 05-6PK-20201-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8523
ITEM: CB 48 CABIN TVC (5A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8524
NASA FMEA #: 05-6PK-20201-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8524
ITEM: CB 48 CABIN TVC (5A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8525
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8525
ITEM: CB 51 STBD RMS TVC & P/T (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY	REDUNDANCY SCREENS			CIL
	FLIGHT HDW/FUNC	A	B	C	ITEM
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. STBD NOT USED ON PRESENT MISSION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8526
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8526
ITEM: CB 51 STBD RMS TVC & P/T (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. NOT CRITICALITIES AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8527
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8527
ITEM: CB 52 STBD RMS TVC HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. STBD RMS NOT USED ON PRESENT MISSIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8528
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8528
ITEM: CB 52 STBD RMS TVC HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 /3]	[]	[]	[]	
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. NOT CRITICAL. STBD RMS NOT USED
ON PRESENT MISSIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8529
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8529
ITEM: CB 53 STBD RMS P/T HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COMPARABLE NASA CCTV FMEA. STBD RMS NOT USED ON PRESENT MISSIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8530
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8530
ITEM: CB 53 STBD RMS P/T HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE NASA CCTV FMEA. NOT CRITICAL. STBD RMS NOT USED
ON PRESENT MISSIONS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8531
NASA FMEA #: 05-6PK-20101-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8531
ITEM: CB 55 PORT RMS TVC & P/T (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[P]	[P]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

OTHER TVCs AND CREW VIEWING COULD BE CONSIDERED AS UNLIKE REDUNDANCY AND LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTIONS COULD RESULT IN LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8532
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8532
ITEM: CB 55 PORT RMS TVC & P/T (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO COMPARABLE FAILED CLOSED NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8533
NASA FMEA #: 05-6PK-20102-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8533
ITEM: CB 56 PORT RMS TVC HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

OTHER TVCS AND CREW VIEWING COULD BE CONSIDERED AS UNLIKE
REDUNDANCY AND LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTIONS
COULD RESULT IN LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8534
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8534
ITEM: CB 56 PORT RMS TVC HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [N]

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8535
NASA FMEA #: 06-6PK-20102-1

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8535
ITEM: CB 57 PORT RMS P/T HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

OTHER TVCS AND CREW VIEWING COULD BE CONSIDERED AS UNLIKE
REDUNDANCY AND LOSS OF ALL CAPABILITY TO PERFORM CCTV FUNCTIONS
COULD RESULT IN LOSS OF VEHICLE AND CREW.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/05/88
ASSESSMENT ID: COMTRK-8536
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 8536
ITEM: CB 57 PORT RMS P/T HTR (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COMPARABLE FAILED CLOSED NASA CCTV FMEA. NOT CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-9001
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9001
ITEM: ACCU BYPASS

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	*
IOA	[3 /2R]	[P]	[NA]	[P]	
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [NA] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA FMEA NOT IN AUDIO FMEA PACKET.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-9011
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9011
ITEM: HEADSET, VERY LIGHT WEIGHT

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NASA FMEA NOT IN AUDIO FMEA PACKET.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-9012
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9012
ITEM: COMM CARRIER ELECTRONICS MODULE

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	*
IOA	[3 /2R]	[P]	[NA]	[P]	
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[NA]	[P]	[]
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(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA FMEA NOT IN AUDIO FMEA PACKET.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-9021
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9021
ITEM: TELEPRINTER, INTERIM

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /3] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NASA FMEA NOT IN AUDIO FMEA PACKET.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-9031
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9031
ITEM: MICROPHONE, HAND HELD

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /3]	[]	[]	[]	[]	(ADD/DELETE)
----------	-----	-----	-----	-----	--------------

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA FMEA NOT IN AUDIO FMEA PACKET.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-9041
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9041
ITEM: RADIO, PRC 90-2

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R]	[P]	[NA]	[P]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THIS ITEM IS USED POST-FLIGHT, POST-ABORT IN A SURVIVAL
SITUATION. NO NASA FMEA IN FMEA PACKET.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-9042
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9042
ITEM: RADIO, RF BEACON, AN/URT-33

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [NA] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THIS ITEM IS USED POST-FLIGHT, POST-ABORT IN A SURVIVAL
SITUATION. NO NASA FMEA IN FMEA PACKET.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-9051
 NASA FMEA #: 05-2A-21926-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 9051
 ITEM: HEADSET INTERFACE UNIT

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:

NASA FMEA CONSIDERS POSSIBILITY OF MULTIPLE HIU FAILURES, WITH
 ULTIMATE EFFECT POSSIBLE LOSS OF VOICE CAPABILITY FOR STATE
 VECTOR UPDATE, AFTER LOSS OF ALL HIU's AND BOTH S-BAND PM
 STRINGS. EXTREME, BUT POSSIBLE SCENARIO.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-9052
NASA FMEA #: 05-2A-21926-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9052
ITEM: HEADSET INTERFACE UNIT

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NASA FMEA CONSIDERS POSSIBILITY OF MULTIPLE HIU FAILURES, WITH ULTIMATE EFFECT POSSIBLE LOSS OF VOICE CAPABILITY FOR STATE VECTOR UPDATE, AFTER LOSS OF ALL HIU's AND BOTH S-BAND PM STRINGS. EXTREME, BUT POSSIBLE SCENARIO.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-9053
 NASA FMEA #: 05-2A-21955-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 9053
 ITEM: MULTIPLE HEADSET ADAPTER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-9054
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9054
ITEM: HEADSET CABLE

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9061
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9061
ITEM: VIDEO TAPE RECORDER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 14, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9062
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9062
ITEM: VIDEO TAPE RECORDER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 14, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITIY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9063
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9063
ITEM: VIDEO TAPE RECORDER

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE
14, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9064
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9064
ITEM: VIDEO TAPE RECORDER PWR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 14, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITIY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9065
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9065
ITEM: VIDEO TAPE RECORDER PWR SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[N / N]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 14, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9066
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9066
ITEM: VIDEO TAPE RECORDER AUDIO MODE SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 14, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITIY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9067
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9067
ITEM: VIDEO TAPE RECORDER AUDIO MODE SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 14, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITIY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9068
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9068
ITEM: VIDEO TAPE RECORDER VIDEO MODE SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 14, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9069
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9069
ITEM: VIDEO TAPE RECORDER VIDEO MODE SW

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 14, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9070
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9070
ITEM: VIDEO TAPE RECORDER FUNCTION SELECT PUSH BUTTONS

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 14, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9071
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9071
ITEM: VIDEO TAPE RECORDER FUNCTION SELECT PUSH BUTTONS

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 14, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/11/88 NASA DATA:
ASSESSMENT ID: COMTRK-9091 BASELINE []
NASA FMEA #: WCCS CREW REMOTE/AUDIO IF NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9091
ITEM: WIRELESS CREW COMM SYSTEM (WCCS)

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THE WCCS IS USED IN LIEU OF HARDLINE CABLES BETWEEN CREWMEMBER(S) AND BULKHEAD AUDIO JACKS. ON LOSS OF RF LINK(S), THE CABLES WOULD BE USED. AGREE WITH NASA CRITICALITY.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-9521
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9521
ITEM: CIRCUIT BREAKER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /3]	[]	[]	[]	[]
----------	--------	--------	--------	--------

(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NASA FMEA NOT IN AUDIO FMEA PACKET.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-9541
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9541
ITEM: BATTERY

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R]	[P]	[NA]	[P]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THIS BATTERY IS IN THE PRC 90-2 HAND-HELD SURVIVAL RADIO UNIT,
WHICH IS NOT USED EITHER IN FLIGHT OR ABORT, BU IN A POST-ABORT
SITUATION. REFER TO ASSOCIATED IOA SHEET.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-9542
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9542
ITEM: BATTERY

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R]	[P]	[NA]	[P]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

THIS BATTERY IS IN THE PRC 90-2 HAND-HELD SURVIVAL RADIO UNIT,
WHICH IS NOT USED EITHER IN FLIGHT OR ABORT, BU IN A POST-ABORT
SITUATION. REFER TO ASSOCIATED IOA SHEET.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9561
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 9561
ITEM: VTR CB 3 (5A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 1R, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9562
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 9562
ITEM: VTR CB 3 (5A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 1R, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9563
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 9563
ITEM: VTR CB 1 (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 1R, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/03/88
ASSESSMENT ID: COMTRK-9564
NASA FMEA #:

NASA DATA:
BASELINE [X]
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 9564
ITEM: VTR CB 1 (3A)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

CRITICALITIES AGREE WITH NASA BLANKET STATEMENT CCTV FMEA NOTE 1R, "VTR OPERATIONS SHALL BE CONSIDERED CRITICALITY 3/3."

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/11/88
ASSESSMENT ID: COMTRK-9591
NASA FMEA #: WCCS BATTERY

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 9591
ITEM: BATTERY

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /3]	[]	[]	[]	* []
IOA	[3 /2R]	[P]	[NA]	[P]	
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

BATTERY POWERS WCCS TRANSMITTER. ON LOSS OF WCCS TRANSMIT
FUNCTION, CREWMEMBER(S) WOULD USE CABLE TO BULKHEAD JACK. AGREE
WITH NASA CRITICALITY.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/12/88
ASSESSMENT ID: COMTRK-10001
NASA FMEA #: EMU-TV-5

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 10001
ITEM: EMU/TV-POWER SWITCH

LEAD ANALYST: W.H. TRAHAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/11/88
ASSESSMENT ID: COMTRK-10002
NASA FMEA #: NONE

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 10002
ITEM: EMU/TV-LIGHT EMITTING DIODE

LEAD ANALYST: W.H. TRAHAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	* []
IOA	[3 / 3]	[]	[]	[]	
COMPARE	[N / N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA FMEA. CREDIBLE FAILURE, BUT DOES NOT WARRANT
ADDITION TO NASA FMEA's.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/11/88 NASA DATA:
ASSESSMENT ID: COMTRK-10003 BASELINE []
NASA FMEA #: NONE NEW []

SUBSYSTEM: COMM AND TRACK
MDAC ID: 10003
ITEM: EMU/TV-CLOSE-UP LENS SWITCH

LEAD ANALYST: W.H. TRAHAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[N /N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /3] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO COUNTERPART NASA FMEA. CREDIBLE FAILURE THAT SHOULD BE ADDED TO NASA FMEA's. CLOSE-UP EMU-TV VIEWS COULD BE VERY DESIREABLE IN SOME SITUATIONS WITHOUT BEING MISSION CRITICAL.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/11/88
ASSESSMENT ID: COMTRK-10004
NASA FMEA #: EMU-TV-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 10004
ITEM: EMU/TV-TV CAMERA

LEAD ANALYST: W.H. TRAHAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/11/88
ASSESSMENT ID: COMTRK-10005
NASA FMEA #: EMU-TV-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 10005
ITEM: EMU/TV-TRANSMITTER

LEAD ANALYST: W.H. TRAHAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/11/88
ASSESSMENT ID: COMTRK-10006
NASA FMEA #: EMU-TV-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 10006
ITEM: EMU/TV-ANTENNA

LEAD ANALYST: W.H. TRAHAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/11/88
ASSESSMENT ID: COMTRK-10007
NASA FMEA #: EMU-TV-6

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 10007
ITEM: EMU/TV-REC/VPU

LEAD ANALYST: W.H. TRAHAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/11/88
ASSESSMENT ID: COMTRK-10501
NASA FMEA #: EMU-TV-4A

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 10501
ITEM: EMU/TV-BATTERY PACK

LEAD ANALYST: W.H. TRAHAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 1/11/88
ASSESSMENT ID: COMTRK-10502
NASA FMEA #:

NASA DATA:
BASELINE []
NEW []

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 10502
ITEM: EMU/TV-BATTERY PACK

LEAD ANALYST: W.H. TRAHAN

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[1 /1]	[]	[]	[]	[X]
COMPARE	[N /N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[1 /1] [] [] [] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO NASA COMM & TRACK COUNTERPART. CREDIBLE FAILURE MODE THAT
SHOULD BE COVERED BY NASA POWER DIVISION.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88 NASA DATA:
 ASSESSMENT ID: COMTRK-11001 BASELINE []
 NASA FMEA #: 05-6PH-24800-1 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 11001
 ITEM: GCIL DRIVER, S-BAND PM TRANSPONDER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 AGREE WITH FMEA SCREEN B ASSIGNMENT.

NASA DATA:
 BASELINE []
 NEW [X]

LEAD ANALYST: A.W. ADDIS

CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
FLIGHT HDW/FUNC		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

[/] [] [] [] []
(ADD/DELETE)

ADEQUATE []
INADEQUATE []

AGREE WITH FMEA SCREEN B ASSIGNMENT. THE AMPLIFIER DRIVERS ARE ENCOMPASSED IN THE NASA FMEA, WHICH COVERS ALL THE S-BAND PM SYSTEM.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88 NASA DATA:
ASSESSMENT ID: COMTRK-11004 BASELINE []
NASA FMEA #: 05-6PH-24800-1 NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 11004
ITEM: GCIL DRIVER, S-BAND PM AMPLIFIER SYSTEM

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/N]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

AGREE WITH FMEA SCREEN B ASSIGNMENT. THE AMPLIFIER DRIVERS ARE ENCOMPASSED IN THE NASA FMEA, WHICH COVERS ALL THE S-BAND PM SYSTEM.

A vertical strip of 20 small, low-resolution images showing various stages of a document or form, likely related to a medical or administrative process. The images are arranged vertically and show different parts of a form, including text fields, checkboxes, and tables. The text is mostly illegible due to the low resolution, but some words like "Name", "Address", and "Date" are visible. The images appear to be scans of a physical document, possibly a patient form or a checklist.

NASA DATA:
 BASELINE []
 NEW [X]

LEAD ANALYST: A.W. ADDIS

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT HDW/FUNC		A	B	C	
NASA	[3 /3]		[]	[]	[]	* []
IOA	[3 /3]		[]	[]	[]	
COMPARE	[/]		[]	[]	[]	[]
RECOMMENDATIONS: (If different from NASA)						
	[/]		[]	[]	[]	[] (ADD/DELETE)

ADEQUATE []
INADEQUATE []

NO DIFFERENCES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-11006
 NASA FMEA #: 05-6PH-24800-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 11006
 ITEM: GCIL DRIVER, S-BAND PAYLOAD SYSTEM

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NO DIFFERENCES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-11007
NASA FMEA #: 05-6PH-24800-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 11007
ITEM: GCIL DRIVER, NETWORK SIGNAL PROCESSOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[NA]	[P]	[] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[N /]	[]	[N]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[2 /1R]	[P]	[NA]	[P]	[A]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

IOA 11007 REFERS TO NSP ONLY, NASA FMEA COVERS ENTIRE S-BAND SYSTEM, AND RELATES THE 3/1R CRITICALITY TO LOSS OF THE TWO S-BAND PM STRINGS, LEAVING ONLY UHF VOIDE FOR STATE VECTOR UPDATES. A SINGLE FMEA CANNOT COVER ALL THE POTENTIAL DEGREES OF CRITICALITY FOR THE S-BAND PM SYSTEM. LOSS OF FIRST NSP DOWNLINK CALLS FOR MINIMUM DURATION FLIGHT, AND THUS QUALIFIES AS 2/1R.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88 NASA DATA:
ASSESSMENT ID: COMTRK-11008 BASELINE []
NASA FMEA #: NONE NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 11008
ITEM: GCIL DRIVER, KU-BAND SYSTEM

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[/]	[]	[]	[]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /1R] [P] [P] [P] [A]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO DIRECT COUNTERPART NASA FMEA. IOA 11008 CONSIDERED THE KU-BAND PRIMARILY IN ITS ROLE AS A REDUNDANT PATH FOR THE ON-ORBIT COMM FUNCTION. LOSS OF KU-BAND COMM AND ALL OTHER PATHS FOR COMM (S-BAND PM STRING 1 AND STRING 2 PLUS UHF VOICE) COULD CAUSE LOSS OF CREW/VEHICLE (INABILITY TO UPDATE STATE VECTOR BEFORE DE-ORBIT BURN).

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88
ASSESSMENT ID: COMTRK-11009
NASA FMEA #: 05-6PH-24800-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 11009
ITEM: GCIL DRIVER, KU-BAND SYSTEM

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-11010
NASA FMEA #: 05-6PH-24800-4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 11010
ITEM: GCIL DRIVER, CCTV SYSTEM

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[N /]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NASA FMEA ASSIGNS CRITICALITY 2/1R ON PREMISE THAT CCTV IS
REQUIRED FOR RMS STOW OPERATIONS AND TO ENSURE PAYLOAD BAY DOORS
ARE PROPERLY LATCHED. AGREE WITH FMEA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-11501
NASA FMEA #: 05-6PH-24801-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 11501
ITEM: CIRCUIT BREAKER, 3A

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NO DIFFERENCES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-11502
NASA FMEA #: 05-6PH-24801-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK/EPD&C
MDAC ID: 11502
ITEM: CIRCUIT BREAKER, 3A

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NO DIFFERENCES.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88

NASA DATA:

ASSESSMENT ID: COMTRK-21071X

BASELINE []

NASA FMEA #: 05-2G-23510-1

NEW [X]

SUBSYSTEM: COMM AND TRACK

MDAC ID: 21071

ITEM: SWITCH, QUAD ANTENNA ROTARY SELECTOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NOT COVERED IN IOA.

REPORT DATE 03/18/88

C-1558

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
ASSESSMENT ID: COMTRK-21072X
NASA FMEA #: 05-2G-23510-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 21072
ITEM: SWITCH, QUAD ANTENNA ROTARY SELECTOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/08/88
ASSESSMENT ID: COMTRK-21073X
NASA FMEA #: 05-2G-23510-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 21073
ITEM: SWITCH, QUAD ANTENNA ROTARY SELECTOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/09/88 NASA DATA:
ASSESSMENT ID: COMTRK-21074X BASELINE []
NASA FMEA #: 05-6PG-21804-3 NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 21074
ITEM: SWITCH, NSP ENCRYPTION POWER ON-OFF

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE:	2/09/88	NASA DATA:	
ASSESSMENT ID:	COMTRK-21075X	BASELINE	[]
NASA FMEA #:	05-6PG-23528-2	NEW	[X]
SUBSYSTEM:	COMM AND TRACK		
MDAC ID:	21075		
ITEM:	SWITCH, QUAD/HEMI ANTENNA ELECTRONICS POWER		
LEAD ANALYST:	A.W. ADDIS		

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[]
INADEQUATE	[]

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-21076X
NASA FMEA #: 05-6PG-23528-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 21076
ITEM: SWITCH, QUAD/HEMI ANTENNA ELECTRONICS POWER

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[NA]	[P]	[] *
IOA	[3 /2R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-21077X
NASA FMEA #: 05-2G-21208-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 21077
ITEM: RELAY ASSEMBLY, PM TRANSPONDER SIGNAL STRENGTH
SELECT

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[NA]	[P]	[]
COMPARE	[/]	[]	[N]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88 NASA DATA:
ASSESSMENT ID: COMTRK-21078X BASELINE []
NASA FMEA #: 05-2G-212841-2 NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 21078
ITEM: DIODE, NSP ENCRYPTION SELECT CIRCUIT

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/12/88
ASSESSMENT ID: COMTRK-21079X
NASA FMEA #: 05-2G-22801-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 21079
ITEM: RESISTOR, QUAD ANTENNA POSITION INDICATOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/11/88 NASA DATA:
ASSESSMENT ID: COMTRK-22514X BASELINE []
NASA FMEA #: 05-2G-23521-1 NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 22514
ITEM: CIRCUIT, SWITCH SCAN, FM SYSTEM

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88
ASSESSMENT ID: COMTRK-23032X
NASA FMEA #: 05-6PH-24830-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 23032
ITEM: SWITCH, S-BAND PAYLOAD PNL/CMD GCIL

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/03/88 NASA DATA:
ASSESSMENT ID: COMTRK-23033X BASELINE []
NASA FMEA #: 05-6PH-24830-2 NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 23033
ITEM: SWITCH, S-BAND PAYLOAD PNL/CMD GCIL

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /2R]	[P]	[P]	[P]	[] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-24062X
NASA FMEA #: 05-2R-5100-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 24062
ITEM: KU BD EA-1 (INTERFACE AND CONTROL UNIT)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
 ASSESSMENT ID: COMTRK-24063X
 NASA FMEA #: 05-2R-5200-3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 24063
 ITEM: RR EA-2 (RADAR SIGNAL PROCESSOR)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 CRITICALITIES IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-24064X
NASA FMEA #: 05-2R-5300-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 24064
ITEM: KU BD DEA (DEPLOYED ELECTRONIC ASSY)

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 2]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-24065X
NASA FMEA #: 05-2R-5300-6

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 24065
ITEM: KU BD DEA (DEPLOYED ELECTRONIC ASSY) THERMOSTATS

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[]	[]	[]	[X]
COMPARE	[/]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-24066X
NASA FMEA #: 05-2R-5300-7

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 24066
ITEM: KU BD DMA (DEPLOYED ELECTRONIC ASSY) TEMPERATURE
SENSOR

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

LOSS OF MEASUREMENT DOES NOT HINDER HEATER OPERATION. A SECOND FAILURE, THE THERMOSTAT, COULD ALLOW FOR OVERHEATING OR FREEZING RESULTING IN DAMAGE TO GIMBAL THUS JEOPARDIZING THE SECURING OF DA. FLIGHT DIRECTOR MAY CURTAIL MISSION TO PRECLUDE THIS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/02/88 NASA DATA:
ASSESSMENT ID: COMTRK-25015X BASELINE []
NASA FMEA #: 05-2B-22101-1 NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 25015
ITEM: SWITCH, UHF MODE ROTARY SELECTOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NOT COVERED BY IOA. AGREE WITH NASA FMEA. NOTE: FMEA ASSIGNS
CRITICALITY 2/2 FOR EVA OPS, 2/1R FOR PHASES WHERE STATE VECTOR
UPDATES ARE REQUIRED.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/02/88
ASSESSMENT ID: COMTRK-25016X
NASA FMEA #: 05-2B-22101-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 25016
ITEM: SWITCH, UHF MODE ROTARY SELECTOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 / 2]	[]	[]	[]	[X] *
IOA	[2 / 1R]	[]	[]	[]	[X]
COMPARE	[/ N]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:

NOT COVERED BY IOA. AGREE WITH NASA FMEA. NOTE: FMEA ASSIGNS
CRITICALITY 2/2 FOR EVA OPS, 2/1R FOR PHASES WHERE STATE VECTOR
UPDATES ARE NEEDED.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/02/88
ASSESSMENT ID: COMTRK-25018X
NASA FMEA #: 05-2B-22101-5

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 25018
ITEM: SWITCH, UHF MODE ROTARY SELECTOR

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

NOT COVERED IN IOA. FOR ON-ORBIT EVA OPS INABILITY TO SELECT UHF MODE COULD CAUSE MISSION LOSS (2/2). FOR DE-ORBIT/LANDING LOSS OF ALL PATHS FOR STATE VECTOR UPDATE (S-BAND PM AND UHF VOICE) COULD CAUSE LOSS OF CREW/VEHICLE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
 ASSESSMENT ID: COMTRK-25019X
 NASA FMEA #: 05-2A-21948-1

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 25019
 ITEM: SWITCH, UHF AIR-TO-AIR (AUDIO CENTER)

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

CRITICALITY FLIGHT HDW/FUNC		REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
 INADEQUATE []

REMARKS:
 NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-25020X
NASA FMEA #: 05-2A-21948-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 25020
ITEM: SWITCH, UHF AIR-TO-AIR (AUDIO CENTER)

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88 NASA DATA:
ASSESSMENT ID: COMTRK-25021X BASELINE []
NASA FMEA #: 05-2A-21948-2 NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 25021
ITEM: SWITCH, UHF AIR-TO-AIR (AUDIO CENTER)

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /3]	[]	[]	[]	[]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-25022X
NASA FMEA #: 05-2A-21949-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 25022
ITEM: SWITCH, UHF AIR-TO-AIR (AUDIO CENTER)

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88	NASA DATA:
ASSESSMENT ID: COMTRK-25023X	BASELINE []
NASA FMEA #: 05-2A-21949-2	NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 25023
ITEM: SWITCH, UHF AIR-TO-AIR (AUDIO CENTER)

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[]	(ADD/DELETE)
-----------	-------	-------	-------	-------	--------------

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[X]
INADEQUATE	[]

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 2/10/88
ASSESSMENT ID: COMTRK-25024X
NASA FMEA #: 05-2A-21949-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 25024
ITEM: SWITCH, UHF AIR-TO-AIR (AUDIO CENTER)

LEAD ANALYST: A.W. ADDIS

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27052X
NASA FMEA #: 05-2A-21907-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27052
ITEM: TACAN ID SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27053X
NASA FMEA #: 05-2A-21907-3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27053
ITEM: TACAN ID SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27054X
NASA FMEA #: 05-2A-21914-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27054
ITEM: TACAN ID SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27055X
NASA FMEA #: 05-2A-21914-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27055
ITEM: TACAN ID SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
NOT COVERED IN IOA.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27056X
NASA FMEA #: 05-2C-22200-4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27056
ITEM: TACAN

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[1 /1]	[]	[]	[]	[X]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[1 /1] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:

DURING NEAR IN OPERATION S-BAND OR UHF VOICE LINK SHOULD PROVIDE STATE VECTOR UPDATE CAPABILITY, BUT UNDER WORST CASE CONDITIONS IMMEDIATELY AFTER BLACKOUT STATE VECTOR UPDATE CAPABILITY MAY BE LOSS.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27057X
NASA FMEA #: 05-2C-22200-5

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27057
ITEM: TACAN

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[1 / 1]	[]	[]	[]	[X] *
IOA	[1 / 1]	[]	[]	[]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES ARE IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27058X
NASA FMEA #: 05-2C-23000-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27058
ITEM: TACAN ANTENNA

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] . [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES ARE IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27059X
NASA FMEA #: 05-2D-23300-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27059
ITEM: RADAR ALTIMETER, ANTENNA

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES ARE IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88	NASA DATA:
ASSESSMENT ID: COMTRK-27060X	BASELINE []
NASA FMEA #: 05-2F-22601-1	NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27060
ITEM: MSBLS RF WAVEGUIDE ASSEMBLY

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY	SCREENS		CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[] (ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[X]
INADEQUATE	[]

REMARKS:
CRITICALITIES ARE IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27061X
NASA FMEA #: 05-2F-22601-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27061
ITEM: MSBLS RF WAVEGUIDE ASSEMBLY

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES ARE IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27062X
NASA FMEA #: 05-2F-23100-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27062
ITEM: MSBLS, ANTENNA

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 /1R]	[P]	[P]	[P]	[] *
IOA	[3 /1R]	[P]	[P]	[P]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES ARE IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27063X
NASA FMEA #: 05-6PD-22701-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27063
ITEM: RA PWR SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES ARE IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27064X
NASA FMEA #: 05-6PF-22401-2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27064
ITEM: MLS POWER SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES ARE IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/14/88
ASSESSMENT ID: COMTRK-27507X
NASA FMEA #: 05-6PD-22703-1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 27507
ITEM: RADAR ALTIMETER, RESISTOR R1

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
CRITICALITIES ARE IN AGREEMENT.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88	NASA DATA:
ASSESSMENT ID: COMTRK-28377X	BASELINE []
NASA FMEA #: 2.4.4.1	NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28377
ITEM: PAN AND TILT UNIT LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[P]	[P]	[P]	
COMPARE	[/]		[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[/]	[]	[]	[]	[] (ADD/DELETE)
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* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE	[X]
INADEQUATE	[]

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28378X
NASA FMEA #: 2.4.4.2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28378
ITEM: PAN AND TILT UNIT LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION, RMS JETTISON, AND KUBAND RADAR FOR RENDEZ AND STATION KEEPING.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28379X
NASA FMEA #: 4.4.4.1

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28379
ITEM: PAN AND TILT UNIT LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28380X
NASA FMEA #: 4.4.4.2

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28380
ITEM: PAN AND TILT UNIT LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /1R]	[P]	[P]	[P]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[]	[]	[]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [] [] [] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

RMS TVC DOES NOT PROVIDE HIGH CRITICALITY FUNCTION LIKE MONITORING RMS MOVEMENT AND P/L BAY DOOR LATCH CLOSURE. UNLIKE REDUNDANCY PROVIDED VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION, RMS JETTISON. OTHER RMS TVC AND KUBAND RADAR FOR RENDEZ AND STATION KEEPING.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88 NASA DATA:
 ASSESSMENT ID: COMTRK-28381X BASELINE []
 NASA FMEA #: 3.1.6.3 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 28381
 ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28382X
NASA FMEA #: 3.1.6.4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28382
ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28383X
NASA FMEA #: 2.1.6.3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28383
ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28384X
NASA FMEA #: 2.1.6.4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28384
ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS
FOR CREW VISUAL INSPECTION, RMS JETTISON, AND KUBAND RADAR FOR
RENDEZ AND STATION KEEPING.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
 ASSESSMENT ID: COMTRK-28385X
 NASA FMEA #: 5.1.6.3

NASA DATA:
 BASELINE []
 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 28385
 ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] [] (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28386X
NASA FMEA #: 5.1.6.4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28386
ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	*
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

RMS TVC DOES NOT PROVIDE HIGH CRITICALITY FUNCTION LIKE MONITORING RMS MOVEMENT AND P/L BAY DOOR LATCH CLOSURE. UNLIKE REDUNDANCY PROVIDED VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION, RMS JETTISON. OTHER RMS TVC AND KUBAND RADAR FOR RENDEZ AND STATION KEEPING.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88 NASA DATA:
 ASSESSMENT ID: COMTRK-28387X BASELINE []
 NASA FMEA #: 4.1.6.3 NEW [X]

SUBSYSTEM: COMM AND TRACK
 MDAC ID: 28387
 ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
 (ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
 INADEQUATE []

REMARKS:
 AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28388X
NASA FMEA #: 4.1.6.4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28388
ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[D]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

RMS TVC DOES NOT PROVIDE HIGH CRITICALITY FUNCTION LIKE MONITORING RMS MOVEMENT AND P/L BAY DOOR LATCH CLOSURE. UNLIKE REDUNDANCY PROVIDED VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION, RMS JETTISON. OTHER RMS TVC AND KUBAND RADAR FOR RENDEZ AND STATION KEEPING.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28389X
NASA FMEA #: 2.3.6.3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28389
ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28390X
NASA FMEA #: 2.3.6.4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28390
ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION, RMS JETTISON, AND KUBAND RADAR FOR RENDEZ AND STATION KEEPING.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28391X
NASA FMEA #: 3.3.6.3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28391
ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28392X
NASA FMEA #: 3.3.6.4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28392
ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY			REDUNDANCY SCREENS			CIL ITEM
	FLIGHT			A	B	C	
	HDW/FUNC						
NASA	[3 / 3]			[]	[]	[]	[] *
IOA	[3 / 3]			[]	[]	[]	[]
COMPARE	[/]			[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28393X
NASA FMEA #: 4.3.6.3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28393
ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28394X
NASA FMEA #: 4.3.6.4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28394
ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

RMS TVC DOES NOT PROVIDE HIGH CRITICALITY FUNCTION LIKE
MONITORING RMS MOVEMENT AND P/L BAY DOOR LATCH CLOSURE. UNLIKE
REDUNDANCY PROVIDED VIA CREW WINDOW VIEWING, EVA AND COAS FOR
CREW VISUAL INSPECTION, RMS JETTISON. OTHER RMS TVC AND KUBAND
RADAR FOR RENDEZ AND STATION KEEPING.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28395X
NASA FMEA #: 5.3.6.3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28395
ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28396X
NASA FMEA #: 5.3.6.4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28396
ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /2R] [P] [P] [P] [D]
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

RMS TVC DOES NOT PROVIDE HIGH CRITICALITY FUNCTION LIKE MONITORING RMS MOVEMENT AND P/L BAY DOOR LATCH CLOSURE. UNLIKE REDUNDANCY PROVIDED VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION, RMS JETTISON. OTHER RMS TVC AND KUBAND RADAR FOR RENDEZ AND STATION KEEPING.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28396X
NASA FMEA #: 3.2.6.3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28397
ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28398X
NASA FMEA #: 3.2.6.4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28398
ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28399X
NASA FMEA #: 2.2.6.3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28399
ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28400X
NASA FMEA #: 2.2.6.4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28400
ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[2 /1R]	[P]	[P]	[P]	[X]
COMPARE	[/N]	[N]	[N]	[N]	[]

RECOMMENDATIONS: (If different from NASA)

[2 /1R] [P] [P] [P] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

UNLIKE REDUNDANCY EXISTS VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION, RMS JETTISON, AND KUBAND RADAR FOR RENDEZ AND STATION KEEPING.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28401X
NASA FMEA #: 4.2.6.3

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28401
ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[3 / 3]	[]	[]	[]	[] *
IOA	[3 / 3]	[]	[]	[]	[]
COMPARE	[/]	[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28402X
NASA FMEA #: 4.2.6.4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28402
ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[D]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

RMS TVC DOES NOT PROVIDE HIGH CRITICALITY FUNCTION LIKE MONITORING RMS MOVEMENT AND P/L BAY DOOR LATCH CLOSURE. UNLIKE REDUNDANCY PROVIDED VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION, RMS JETTISON. OTHER RMS TVC AND KUBAND RADAR FOR RENDEZ AND STATION KEEPING.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88	NASA DATA:
ASSESSMENT ID: COMTRK-28403X	BASELINE []
NASA FMEA #: 5.2.6.3	NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28403
ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY		REDUNDANCY SCREENS			CIL ITEM
	FLIGHT	HDW/FUNC	A	B	C	
NASA	[3 / 3]		[]	[]	[]	[] *
IOA	[3 / 3]		[]	[]	[]	[]
COMPARE	[/]		[]	[]	[]	[]

RECOMMENDATIONS: (If different from NASA)

[/] [] [] [] []
(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE [X]
INADEQUATE []

REMARKS:
AGREE.

APPENDIX C ASSESSMENT WORKSHEET

ASSESSMENT DATE: 3/16/88
ASSESSMENT ID: COMTRK-28404X
NASA FMEA #: 5.2.6.4

NASA DATA:
BASELINE []
NEW [X]

SUBSYSTEM: COMM AND TRACK
MDAC ID: 28404
ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH

LEAD ANALYST: W.C. LONG

ASSESSMENT:

	CRITICALITY FLIGHT HDW/FUNC	REDUNDANCY SCREENS			CIL ITEM
		A	B	C	
NASA	[2 /2]	[]	[]	[]	[X] *
IOA	[3 /2R]	[P]	[P]	[P]	[]
COMPARE	[N /N]	[N]	[N]	[N]	[N]

RECOMMENDATIONS: (If different from NASA)

[3 /2R]	[P]	[P]	[P]	[D]
				(ADD/DELETE)

* CIL RETENTION RATIONALE: (If applicable)

ADEQUATE []
INADEQUATE [X]

REMARKS:

RMS TVC DOES NOT PROVIDE HIGH CRITICALITY FUNCTION LIKE MONITORING RMS MOVEMENT AND P/L BAY DOOR LATCH CLOSURE. UNLIKE REDUNDANCY PROVIDED VIA CREW WINDOW VIEWING, EVA AND COAS FOR CREW VISUAL INSPECTION, RMS JETTISON. OTHER RMS TVC AND KUBAND RADAR FOR RENDEZ AND STATION KEEPING.

REPORT DATE 03/18/88

C-1626

APPENDIX D

CRITICAL ITEMS

APPENDIX D
POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
05-2G-22800-1	1001	S-BAND QUAD ANTENNAS	LOSS OF OUTPUT, S
05-2G-22800-1	1002	S-BAND QUAD ANTENNAS	ERRATIC/INTERMITT
05-2G-22800-2	1003	S-BAND QUAD ANTENNAS	FAILURE TO SWITCH
05-2G-22800-2	1004	S-BAND QUAD ANTENNAS	BEAM SWITCH FAILS
05-2G-23500-3	1005	SWITCH BEAM CONTROL E	ERRONEOUS OUTPUT
05-2G-23500-4	1006	SWITCH BEAM CONTROL E	LOSS OF OUTPUT, E
05-2G-23500-4	1007	SWITCH BEAM CONTROL E	ERRATIC/INTERMITT
05-2G-23500-3	1008	ANTENNA SWITCH ASSEMB	FAILS TO OPEN/CLO
05-2G-23500-4	1008	ANTENNA SWITCH ASSEMB	FAILS TO OPEN/CLO
05-2G-23500-4	1010	ANTENNA SWITCH ASSEMB	RF SWITCH FAILS M
05-2G-21210-2	1013	S-BAND PREAMPLIFIER	OPEN (ELECTRICAL)
05-2G-21204-3	1036	S-BAND PM SYSTEM MODE	SHORTED
05-2G-21500-1	1045	NETWORK SIGNAL PROCES	OPEN (ELECTRICAL)
05-2G-21500-1	1046	NETWORK SIGNAL PROCES	INTERMITTENT OPER
05-6PG-21804-1	1050	NSP ENCRYPTION POWER	FAILS TO REMAIN O
05-2G-21801-1	1051	NSP ENCRYPTION MODE S	FAILS TO REMAIN O
05-2G-21801-2	1052	NSP ENCRYPTION MODE S	SHORTED
05-2G-21802-1	1053	NSP ENCRYPTION SELECT	FAILS TO REMAIN O
05-2G-21802-2	1054	NSP ENCRYPTION SELECT	OPEN (ELECTRICAL)
05-2G-21803-2	1056	ENCRYPTION ZEROIZE/NO	SHORTED
05-2G-21533-2	1058	NSP UPLINK DATA SOURC	SHORTED
05-2G-21531-2	1060	NSP DATA RATE XMIT SW	SHORTED
05-2G-21532-2	1062	NSP DATA RATE RCV SWI	SHORTED
05-2G-21534-2	1064	NSP CODING XMIT SWITC	SHORTED
05-2G-21535-2	1066	NSP CODING RCV SWITCH	SHORTED
05-6PG-22000-2	1068	UPLINK BLOCK SWITCH	FAILS TO OPEN/CLO
05-6PG-21201-2	1523	DIODE, A16CR1	FAILS SHORTED
	1524	DIODE, A16CR2	FAILS SHORTED
05-6PG-21228-2	1582	DIODE, A18CR13	FAILS SHORTED
05-6PG-21228-2	1583	DIODE, A18CR14	FAILS SHORTED
05-6PG-21228-2	1584	DIODE, A18CR15	FAILS SHORTED
05-6PG-21228-2	1585	DIODE, A18CR16	FAILS SHORTED
05-6PG-23529-2	1600	DIODE, A19CR1	FAILS SHORTED
05-6PG-23529-2	1601	DIODE, CR2A19	FAILS SHORTED
05-6PG-21500-2	1611	DIODE	FAILS SHORT
05-6PG-21500-2	1613	DIODE	FAILS SHORT
05-2J-25500-1	3001	PAYLOAD ANTENNA	LOSS OF OUTPUT
05-2J-23600-1	3003	PAYLOAD RF TRANSFER S	FAILS MID-TRAVEL,
05-2J-23600-1	3004	PAYLOAD RF TRANSFER S	SHORTED
05-2J-213013-1	3017	S-BAND PAYLOAD SYSTEM	SHORTED
05-2J-213014-1	3019	S-BAND PL PI/PSP POWE	SHORTED
05-6PJ-236002-1	3021	S-BAND PL ANTENNA POL	SHORTED
05-2J-21304-2	3023	PI TRANSMITTER RF PWR	SHORTED
05-2J-21309-2	3025	PL SYSTEM XMTR MODULA	SHORTED
05-2J-21308-2	3027	S-BAND FREQUENCY SWEE	SHORTED
05-2J-21615-2	3029	S-BAND PL PSP COMMAND	SHORTED
05-2R-5100-2	4018	KU BD COMM DOWN/RETUR	LOSS OF OUTPUT
05-2R-5100-2	4019	KU BD COMM DOWN/RETUR	LOSS OF OUTPUT
	4041	KU BD ANT A PYRO ARM/	FAILS TO SWITCH

APPENDIX D POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
	4042	KU BD ANT A PYRO ARM/	ELECTRICAL OPEN/S
	4043	KU BD ANT A PYRO JETT	FAILS TO SWITCH
	4044	KU BD ANT A PYRO JETT	ELECTRICAL OPEN/S
05-6PR-54050-1	4501	CIRCUIT BREAKER, 5A	FAILS OPEN
05-6PR-51050-1	4503	CIRCUIT BREAKER, 15A	FAILS OPEN
05-6PR-53024-1	4505	CIRCUIT BREAKER, 7.5A	FAILS OPEN
05-6PR-51053-1	4508	RPC, 10A	FAILS OPEN
05-6PR-51051-1	4510	FUSE, 3A	FAILS OPEN
05-6PR-51052-1	4511	FUSE, 3A	FAILS OPEN
05-6PR-53055-1	4512	FUSE, 3A	FAILS OPEN
05-6PR-53067-1	4513	FUSE, 3A	FAILS OPEN
05-2B-23400-1	5001	UHF EVA/ATC EXTERNAL	LOSS OF OUTPUT
05-2B-22100-1	5003	UHF EVA/ATC TRANCEIVE	LOSS OF OUTPUT
05-2B-22100-1	5004	UHF EVA/ATC TRANSCEIV	LOSS OUTPUT
05-2B-22100-2	5004	UHF EVA/ATC TRANSCEIV	LOSS OUTPUT
05-2B-22100-1	5005	UHF EVA/ATC TRANSCEIV	LOSS OF OUTPUT
05-2B-22100-1	5006	UHF EVA/ATC TRANSCEIV	LOSS OF OUTPUT
05-2B-22100-2	5006	UHF EVA/ATC TRANSCEIV	LOSS OF OUTPUT
05-2B-22104-1	5007	UHF SIMPLEX PA PWR SW	FAILS TO REMAIN O
05-2B-22104-3	5009	UHF SIMPLEX POWER SWI	FAILS TO REMAIN O
05-2B-22104-1	5010	UHF SIMPLEX POWER SWI	SHORTED
05-2B-22103-2	5013	UHF XMIT FREQUENCY SE	FAILS TO REMAIN O
05-2B-22103-3	5014	UHF XMIT FREQUENCY SE	SHORTED
05-6PB-22107-1	5501	CIRCUIT BREAKER, UHF,	FAILS TO REMAIN O
05-6PB-22107-2	5502	CIRCUIT BREAKER, UHF,	FAILS TO REMAIN O
05-6PB-22107-2	5503	CIRCUIT BREAKER, UHF,	FAILS TO REMAIN O
05-2C-22200-2	7002	TACAN	INTERMITTENT AND
05-2C-22200-2	7003	TACAN	FAILS OUT OF TOLE
05-2F-22400-2	7014	MSBLS TRACKER/DECODER	INTERMITTENT AND
05-2D-22700-1	7020	RADAR ALTIMETER	LOSS OF OUTPUT
05-2D-22700-3	7020	RADAR ALTIMETER	LOSS OF OUTPUT
05-2D-22700-2	7021	RADAR ALTIMETER	FAILS OUT OF TOLE
05-2D-22700-4	7021	RADAR ALTIMETER	FAILS OUT OF TOLE
05-2D-22700-2	7022	RADAR ALTIMETER	INTERMITTENT AND
05-2D-22700-4	7022	RADAR ALTIMETER	INTERMITTENT AND
05-6PD-22701-1	7023	RA PWR SWITCH	FAILS TO CLOSE
05-6PD-22701-1	7024	RA PWR SWITCH	FAILS TO REMAIN C
05-6PD-22701-1	7025	RA PWR SWITCH	ELECTRICAL OPEN/S
05-2R-5100-1	7026	RENDEZVOUS RADAR	LOSS OF OUTPUT
05-2R-5100-2	7026	RENDEZVOUS RADAR	LOSS OF OUTPUT
05-2R-5100-1	7027	RENDEZVOUS RADAR	FAILS OUT OF TOLE
05-2R-5100-2	7027	RENDEZVOUS RADAR	FAILS OUT OF TOLE
05-2R-5100-1	7028	RR EA-1 (INTERFACE AN	LOSS OF OUTPUT
05-2R-5100-2	7028	RR EA-1 (INTERFACE AN	LOSS OF OUTPUT
05-2R-5200-1	7029	RR EA-2 (RADAR SIGNAL	LOSS OF OUTPUT
05-2R-5300-1	7030	RR DEA (DEPLOYED ELEC	LOSS OF OUTPUT
05-2R-5300-5	7030	RR DEA (DEPLOYED ELEC	LOSS OF OUTPUT
05-2R-5300-1	7031	RR DEA (DEPLOYED ELEC	FAILS OUT OF TOLE
05-2R-5300-1	7032	RR DMA (DEPLOYED MECH	LOSS OF OUTPUT

APPENDIX D
POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
05-2R-5300-4	7033	RR DMA (DEPLOYED MECH	PHYSICAL BINDING/
	7034	RR DMA (DEPLOYED MECH	FAILS TO START/ST
05-2R-5300-1	7035	RR DMA (DEPLOYED MECH	ERRATIC OPERATION
05-2R-5112-1	7036	KU-BAND POWER SWITCH	FAILS TO CLOSE
05-2R-5112-2	7037	KU-BAND POWER SWITCH	ELECTRICAL OPEN/S
	7038	KU-BAND POWER SWITCH	FAILS TO REMAIN C
05-2R-5113-1	7039	KU A MODE SWITCH (REF	FAILS TO SWITCH
05-2R-5113-2	7040	KU A MODE SWITCH (REF	ELECTRICAL OPEN/S
05-2R-5107-1	7041	KU BD A ANT STEERING	FAILS TO SWITCH
05-2R-5214-2	7043	RADAR OUTPUT SWITCH	ELECTRICAL OPEN/S
05-2R-5104-1	7044	SLEW AZIMUTH CONTROL	FAILS TO SWITCH
05-2R-5104-2	7045	SLEW AZIMUTH CONTROL	ELECTRICAL OPEN/S
05-2R-5104-1	7046	SLEW ELEV CONTROL SWI	FAILS TO SWITCH
05-2R-5104-2	7047	SLEW ELEV CONTROL SWI	ELECTRICAL OPEN/S
05-2R-5105-2	7049	SLEW RATE CONTROL SWI	ELECTRICAL OPEN/S
05-2R-5108-3	7051	ANT SEARCH SELECT SWI	ELECTRICAL OPEN/S
05-6PD-22702-1	7506	CIRCUIT BREAKER, 3A(3	FAILS OPEN
1.2.2	8001	VIDEO SWITCHING UNIT	LOSS OF OUTPUT
1.2.18	8001	VIDEO SWITCHING UNIT	LOSS OF OUTPUT
1.2.21	8001	VIDEO SWITCHING UNIT	LOSS OF OUTPUT
1.2.22	8001	VIDEO SWITCHING UNIT	LOSS OF OUTPUT
1.2.23	8001	VIDEO SWITCHING UNIT	LOSS OF OUTPUT
1.2.2	8002	VIDEO SWITCHING UNIT	FAILS TO SWITCH
1.2.18	8002	VIDEO SWITCHING UNIT	FAILS TO SWITCH
1.2.21	8002	VIDEO SWITCHING UNIT	FAILS TO SWITCH
1.2.22	8002	VIDEO SWITCHING UNIT	FAILS TO SWITCH
1.2.23	8002	VIDEO SWITCHING UNIT	FAILS TO SWITCH
1.2.2	8003	VIDEO SWITCHING UNIT	ELECTRICAL OPEN/S
1.2.18	8003	VIDEO SWITCHING UNIT	ELECTRICAL OPEN/S
1.2.21	8003	VIDEO SWITCHING UNIT	ELECTRICAL OPEN/S
1.2.22	8003	VIDEO SWITCHING UNIT	ELECTRICAL OPEN/S
1.2.23	8003	VIDEO SWITCHING UNIT	ELECTRICAL OPEN/S
1.1.1	8004	REMOTE CONTROL UNIT	LOSS OF OUTPUT
1.1.2	8004	REMOTE CONTROL UNIT	LOSS OF OUTPUT
1.1.5	8004	REMOTE CONTROL UNIT	LOSS OF OUTPUT
1.1.11.2	8004	REMOTE CONTROL UNIT	LOSS OF OUTPUT
1.1.15	8004	REMOTE CONTROL UNIT	LOSS OF OUTPUT
1.1.19	8004	REMOTE CONTROL UNIT	LOSS OF OUTPUT
1.1.8	8004	REMOTE CONTROL UNIT	LOSS OF OUTPUT
1.1.9	8004	REMOTE CONTROL UNIT	LOSS OF OUTPUT
1.1.10	8004	REMOTE CONTROL UNIT	LOSS OF OUTPUT
1.1.11.1	8004	REMOTE CONTROL UNIT	LOSS OF OUTPUT
1.1.12.1	8004	REMOTE CONTROL UNIT	LOSS OF OUTPUT
1.1.12.2	8004	REMOTE CONTROL UNIT	LOSS OF OUTPUT
1.1.1	8005	REMOTE CONTROL UNIT	ELECTRICAL OPEN/S
1.1.2	8005	REMOTE CONTROL UNIT	ELECTRICAL OPEN/S
1.1.5	8005	REMOTE CONTROL UNIT	ELECTRICAL OPEN/S
1.1.11.2	8005	REMOTE CONTROL UNIT	ELECTRICAL OPEN/S
1.1.15	8005	REMOTE CONTROL UNIT	ELECTRICAL OPEN/S

APPENDIX D POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
1.1.19	8005	REMOTE CONTROL UNIT	ELECTRICAL OPEN/S
1.1.8	8005	REMOTE CONTROL UNIT	ELECTRICAL OPEN/S
1.1.9	8005	REMOTE CONTROL UNIT	ELECTRICAL OPEN/S
1.1.10	8005	REMOTE CONTROL UNIT	ELECTRICAL OPEN/S
1.1.11.1	8005	REMOTE CONTROL UNIT	ELECTRICAL OPEN/S
1.1.12.1	8005	REMOTE CONTROL UNIT	ELECTRICAL OPEN/S
1.1.12.2	8005	REMOTE CONTROL UNIT	ELECTRICAL OPEN/S
2.1.1	8008	TV CAMERA A (FWD P/L	LOSS OF OUTPUT
2.1.2	8008	TV CAMERA A (FWD P/L	LOSS OF OUTPUT
2.1.3.1	8008	TV CAMERA A (FWD P/L	LOSS OF OUTPUT
2.1.5	8008	TV CAMERA A (FWD P/L	LOSS OF OUTPUT
2.2.1	8008	TV CAMERA A (FWD P/L	LOSS OF OUTPUT
2.2.2	8008	TV CAMERA A (FWD P/L	LOSS OF OUTPUT
2.2.3.1	8008	TV CAMERA A (FWD P/L	LOSS OF OUTPUT
2.2.5	8008	TV CAMERA A (FWD P/L	LOSS OF OUTPUT
2.3.1	8008	TV CAMERA A (FWD P/L	LOSS OF OUTPUT
2.3.2	8008	TV CAMERA A (FWD P/L	LOSS OF OUTPUT
2.3.3.1	8008	TV CAMERA A (FWD P/L	LOSS OF OUTPUT
2.3.5	8008	TV CAMERA A (FWD P/L	LOSS OF OUTPUT
2.1.1	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.1.2	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.1.3.1	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.1.5	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.2.1	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.2.2	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.2.3.1	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.2.5	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.3.1	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.3.2	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.3.3.1	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.3.5	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.1.4	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.2.4	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.3.4	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.1.3.2	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.2.3.2	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.3.3.2	8009	TV CAMERA C (AFT P/L	LOSS OF OUTPUT
2.1.1	8010	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.1.2	8010	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.1.3.1	8010	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.1.5	8010	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.2.1	8010	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.2.2	8010	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.2.3.1	8010	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.2.5	8010	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.3.1	8010	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.3.2	8010	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.3.3.1	8010	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.3.5	8010	TV CAMERA D (RMS STBD	LOSS OF OUTPUT

APPENDIX D
POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
2.1.1	8011	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.1.2	8011	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.1.3.1	8011	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.1.5	8011	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.2.1	8011	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.2.2	8011	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.2.3.1	8011	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.2.5	8011	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.3.1	8011	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.3.2	8011	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.3.3.1	8011	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
2.3.5	8011	TV CAMERA D (RMS STBD	LOSS OF OUTPUT
5.1.1	8012	TV CAMERA RMS WRIST	LOSS OF OUTPUT
5.1.2	8012	TV CAMERA RMS WRIST	LOSS OF OUTPUT
5.1.3.1	8012	TV CAMERA RMS WRIST	LOSS OF OUTPUT
5.1.5	8012	TV CAMERA RMS WRIST	LOSS OF OUTPUT
5.2.1	8012	TV CAMERA RMS WRIST	LOSS OF OUTPUT
5.2.2	8012	TV CAMERA RMS WRIST	LOSS OF OUTPUT
5.2.3.1	8012	TV CAMERA RMS WRIST	LOSS OF OUTPUT
5.2.5	8012	TV CAMERA RMS WRIST	LOSS OF OUTPUT
5.3.1	8012	TV CAMERA RMS WRIST	LOSS OF OUTPUT
5.3.2	8012	TV CAMERA RMS WRIST	LOSS OF OUTPUT
5.3.3.1	8012	TV CAMERA RMS WRIST	LOSS OF OUTPUT
5.3.5	8012	TV CAMERA RMS WRIST	LOSS OF OUTPUT
4.1.1	8013	TV CAMERA RMS ELBOW	LOST OF OUTPUT
4.1.2	8013	TV CAMERA RMS ELBOW	LOST OF OUTPUT
4.1.3.1	8013	TV CAMERA RMS ELBOW	LOST OF OUTPUT
4.2.1	8013	TV CAMERA RMS ELBOW	LOST OF OUTPUT
4.2.2	8013	TV CAMERA RMS ELBOW	LOST OF OUTPUT
4.2.3.1	8013	TV CAMERA RMS ELBOW	LOST OF OUTPUT
4.3.1	8013	TV CAMERA RMS ELBOW	LOST OF OUTPUT
4.3.2	8013	TV CAMERA RMS ELBOW	LOST OF OUTPUT
4.3.3.1	8013	TV CAMERA RMS ELBOW	LOST OF OUTPUT
4.1.5	8013	TV CAMERA RMS ELBOW	LOST OF OUTPUT
4.2.5	8013	TV CAMERA RMS ELBOW	LOST OF OUTPUT
4.3.5	8013	TV CAMERA RMS ELBOW	LOST OF OUTPUT
2.1.7	8014	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.2.7	8014	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.3.7	8014	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.1.1	8014	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.1.2	8014	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.2.1	8014	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.2.2	8014	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.3	8014	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.1.7	8015	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.2.7	8015	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.3.7	8015	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.1.1	8015	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.1.2	8015	PAN AND TILT UNIT (TV	PHYSICAL BINDING/

APPENDIX D POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
2.4.2.1	8015	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.2.2	8015	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.3	8015	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.4.2	8015	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.1.7	8016	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.2.7	8016	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.3.7	8016	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.1.1	8016	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.1.2	8016	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.2.1	8016	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.2.2	8016	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.3	8016	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.1.7	8017	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.2.7	8017	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.3.7	8017	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.1.1	8017	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.1.2	8017	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.2.1	8017	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.2.2	8017	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.3	8017	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.1.7	8018	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.2.7	8018	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.3.7	8018	PAN AND TILT UNIT (TV	FAILS TO START/ST
4.2.1.1	8018	PAN AND TILT UNIT (TV	FAILS TO START/ST
4.2.1.2	8018	PAN AND TILT UNIT (TV	FAILS TO START/ST
4.2.2.1	8018	PAN AND TILT UNIT (TV	FAILS TO START/ST
4.2.2.2	8018	PAN AND TILT UNIT (TV	FAILS TO START/ST
4.2.3	8018	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.4.4.2	8018	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.1.7	8019	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.2.7	8019	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.3.7	8019	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.1.1	8019	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.1.2	8019	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.2.1	8019	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.2.2	8019	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.3	8019	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.1.7	8020	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.2.7	8020	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.3.7	8020	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.1.1	8020	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.1.2	8020	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.2.1	8020	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.2.2	8020	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.3	8020	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.1.7	8021	PAN AND TILT UNIT (TV	FAILS TO START ST
2.2.7	8021	PAN AND TILT UNIT (TV	FAILS TO START ST
2.3.7	8021	PAN AND TILT UNIT (TV	FAILS TO START ST
2.4.1.1	8021	PAN AND TILT UNIT (TV	FAILS TO START ST

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APPENDIX D
POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
2.4.1.2	8021	PAN AND TILT UNIT (TV	FAILS TO START ST
2.4.2.1	8021	PAN AND TILT UNIT (TV	FAILS TO START ST
2.4.2.2	8021	PAN AND TILT UNIT (TV	FAILS TO START ST
2.4.3	8021	PAN AND TILT UNIT (TV	FAILS TO START ST
2.4.4.2	8021	PAN AND TILT UNIT (TV	FAILS TO START ST
2.1.7	8022	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.2.7	8022	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.3.7	8022	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.1.1	8022	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.1.2	8022	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.2.1	8022	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.2.2	8022	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.3	8022	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.1.7	8023	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.2.7	8023	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.3.7	8023	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.1.1	8023	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.1.2	8023	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.2.1	8023	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.2.2	8023	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.4.3	8023	PAN AND TILT UNIT (TV	PHYSICAL BINDING/
2.1.7	8024	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.2.7	8024	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.3.7	8024	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.1.1.1	8024	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.4.1.2	8024	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.4.2.1	8024	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.4.2.2	8024	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.4.3	8024	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.4.4.2	8024	PAN AND TILT UNIT (TV	FAILS TO START/ST
2.1.7	8025	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.2.7	8025	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.3.7	8025	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.1.1	8025	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.1.2	8025	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.2.1	8025	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.2.2	8025	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
2.4.3	8025	PAN AND TILT UNIT (TV	ERRATIC/INTERMITT
4.4.1.1	8026	PAN AND TILT UNIT (RM	PHYSICAL BINDING/
4.4.1.2	8026	PAN AND TILT UNIT (RM	PHYSICAL BINDING/
4.4.2.1	8026	PAN AND TILT UNIT (RM	PHYSICAL BINDING/
4.4.2.2	8026	PAN AND TILT UNIT (RM	PHYSICAL BINDING/
4.4.3	8026	PAN AND TILT UNIT (RM	PHYSICAL BINDING/
4.1.7	8027	PAN AND TILT UNIT (RM	FAILS TO START/ST
4.2.7	8027	PAN AND TILT UNIT (RM	FAILS TO START/ST
4.3.7	8027	PAN AND TILT UNIT (RM	FAILS TO START/ST
4.4.4.2	8027	PAN AND TILT UNIT (RM	FAILS TO START/ST
	8027	PAN AND TILT UNIT (RM	FAILS TO START/ST
4.4.1.1	8028	PAN AND TILT UNIT (RM	ERRATIC/INTERMITT

APPENDIX D POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
4.4.1.2	8028	PAN AND TILT UNIT (RM	ERRATIC/INTERMITT
4.4.2.1	8028	PAN AND TILT UNIT (RM	ERRATIC/INTERMITT
4.4.2.2	8028	PAN AND TILT UNIT (RM	ERRATIC/INTERMITT
4.4.3	8028	PAN AND TILT UNIT (RM	ERRATIC/INTERMITT
2.1.6.1	8033	MONOCHROME LENS ASSEM	LOSS OF OUTPUT
2.1.6.4	8033	MONOCHROME LENS ASSEM	LOSS OF OUTPUT
2.1.6.2	8034	MONOCHROME LENS ASSEM	PHYSICAL BINDING/
2.1.6.1	8035	MONOCHROME LENS ASSEM	LOSS OF OUTPUT
2.1.6.4	8035	MONOCHROME LENS ASSEM	LOSS OF OUTPUT
2.1.6.2	8036	MONOCHROME LENS ASSEM	PHYSICAL BINDING/
2.1.6.1	8037	MONOCHROME LENS ASSEM	LOSS OF OUTPUT
2.1.6.4	8037	MONOCHROME LENS ASSEM	LOSS OF OUTPUT
2.1.6.2	8038	MONOCHROME LENS ASSEM	PHYSICAL BINDING/
2.1.6.1	8039	MONOCHROME LENS ASSEM	LOSS OF OUTPUT
2.1.6.4	8039	MONOCHROME LENS ASSEM	LOSS OF OUTPUT
2.1.6.2	8040	MONOCHROME LENS ASSEM	PHYSICAL BINDING/
5.1.6.2	8042	MONOCHROME LENS ASSEM	PHYSICAL BINDING/
4.1.6.1	8043	MONOCHROME LENS ASSEM	LOSS OF OUTPUT
4.1.6.4	8043	MONOCHROME LENS ASSEM	LOSS OF OUTPUT
4.1.6.2	8044	MONOCHROME LENS ASSEM	PHYSICAL BINDING/
2.3.6.1	8045	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
2.3.6.4	8045	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
4.3.6.1	8045	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
4.3.6.4	8045	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
4.3.6.3	8045	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
4.3.8.2	8045	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
5.3.6.1	8045	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
5.3.6.4	8045	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
2.3.6.2	8046	WIDE ANGLE LENS ASSEM	PHYSICAL BINDING/
2.3.8.1	8046	WIDE ANGLE LENS ASSEM	PHYSICAL BINDING/
4.3.6.2	8046	WIDE ANGLE LENS ASSEM	PHYSICAL BINDING/
4.3.8.1	8046	WIDE ANGLE LENS ASSEM	PHYSICAL BINDING/
5.3.6.2	8046	WIDE ANGLE LENS ASSEM	PHYSICAL BINDING/
5.3.7.1	8046	WIDE ANGLE LENS ASSEM	PHYSICAL BINDING/
2.3.6.1	8047	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
2.3.6.4	8047	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
4.3.6.1	8047	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
4.3.6.4	8047	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
5.3.6.1	8047	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
5.3.6.4	8047	WIDE ANGLE LENS ASSEM	LOSS OF OUTPUT
2.3.6.2	8048	WIDE ANGLE LENS ASSEM	PHYSICAL BINDING/
2.3.8.1	8048	WIDE ANGLE LENS ASSEM	PHYSICAL BINDING/
4.3.6.2	8048	WIDE ANGLE LENS ASSEM	PHYSICAL BINDING/
4.3.8.1	8048	WIDE ANGLE LENS ASSEM	PHYSICAL BINDING/
5.3.6.2	8048	WIDE ANGLE LENS ASSEM	PHYSICAL BINDING/
5.3.6.2	8048	WIDE ANGLE LENS ASSEM	PHYSICAL BINDING/
2.2.6.1	8053	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
2.2.6.4	8053	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
2.2.6.2	8054	COLOR LENS ASSEMBLY (	PHYSICAL BINDING/

APPENDIX D POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
2.2.8.1	8054	COLOR LENS ASSEMBLY (	PHYSICAL BINDING/
2.2.6.1	8055	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
2.2.6.4	8055	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
2.2.6.2	8056	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
2.2.8.1	8056	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
2.2.6.2	8058	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
2.2.8.1	8058	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
2.2.6.1	8059	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
2.2.6.4	8059	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
2.2.6.3	8059	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
2.2.6.2	8060	COLOR LENS ASSEMBLY (	PHYSICAL BINDING/
2.2.8.1	8060	COLOR LENS ASSEMBLY (	PHYSICAL BINDING/
5.2.6.1	8061	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
5.2.6.4	8061	COLOR LENS ASSEMBLY (	LOSS OF OUTPUT
5.2.6.2	8062	COLOR LENS ASSEMBLY (	PHYSICAL BINDING/
5.2.7.1	8062	COLOR LENS ASSEMBLY (	PHYSICAL BINDING/
05-6PK-20402-1	8069	TV PWR CNTL UNIT SWIT	FAILS TO SWITCH
05-6PK-20402-1	8070	TV PWR CNTL UNIT SWIT	ELECTRICAL OPEN/S
	8074	TV SYNC SWITCH	ELECTRICAL OPEN/S
05-6PK-20501-1	8077	TV CAMERA POWER SWITC	FAILS TO SWITCH
05-6PK-20501-1	8078	TV CAMERA POWER SWITC	ELECTRICAL OPEN/S
05-6PK-20501-1	8079	TV CAMERA POWER SWITC	FAILS TO SWITCH
05-6PK-20501-1	8080	TV CAMERA POWER SWITC	ELECTRICAL OPEN/S
05-6PK-20501-1	8081	TV CAMERA POWER SWITC	FAILS TO SWITCH
05-6PK-20501-1	8082	TV CAMERA POWER SWITC	ELECTRICAL OPEN/S
05-6PK-20501-1	8083	TV CAMERA POWER SWITC	FAILS TO SWITCH
05-6PK-20501-1	8084	TV CAMERA POWER SWITC	ELECTRICAL OPEN/S
6.0.2	8091	RMS TV CAMERA SELECT	FAILS TO SWITCH
6.0.6	8091	RMS TV CAMERA SELECT	FAILS TO SWITCH
6.0.3	8091	RMS TV CAMERA SELECT	FAILS TO SWITCH
6.0.7	8091	RMS TV CAMERA SELECT	FAILS TO SWITCH
6.0.1	8092	RMS TV CAMERA SELECT	ELECTRICAL OPEN/S
6.0.5	8092	RMS TV CAMERA SELECT	ELECTRICAL OPEN/S
6.0.4	8092	RMS TV CAMERA SELECT	ELECTRICAL OPEN/S
6.0.2	8093	RMS TV CAMERA SELECT	FAILS TO SWITCH
6.0.6	8093	RMS TV CAMERA SELECT	FAILS TO SWITCH
6.0.3	8093	RMS TV CAMERA SELECT	FAILS TO SWITCH
6.0.7	8093	RMS TV CAMERA SELECT	FAILS TO SWITCH
6.0.1	8094	RMS TV CAMERA SELECT	ELECTRICAL OPEN/S
6.0.5	8094	RMS TV CAMERA SELECT	ELECTRICAL OPEN/S
6.0.4	8094	RMS TV CAMERA SELECT	ELECTRICAL OPEN/S
	8095	TV CAMERA CMD FOCUS S	FAILS TO SWITCH
	8096	TV CAMERA CMD FOCUS S	ELECTRICAL OPEN/S
	8097	TV CAMERA CMD ZOOM SW	FAILS TO SWITCH
	8098	TV CAMERA CMD ZOOM SW	ELECTRICAL OPEN/S
	8099	TV CAMERA CMD IRIS SW	FAILS TO SWITCH
	8100	TV CAMERA CMD IRIS SW	ELECTRICAL OPEN/S
	8101	TV CAMERA CMD TILT SW	FAILS TO SWITCH
	8102	TV CAMERA CMD TILT SW	ELECTRICAL OPEN/S

APPENDIX D POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
	8103	TV CAMERA CMD PAN SWI	FAILS TO SWITCH
	8104	TV CAMERA CMD PAN SWI	ELECTRICAL OPEN S
	8123	TV VIDEO INPUT PBI [T	FAILS TO SWITCH
	8124	TV VIDEO INPUT PBI [T	ELECTRICAL OPEN/S
	8125	TV VIDEO INPUT PBI [T	FAILS TO SWITCH
	8126	TV VIDEO INPUT PBI [T	ELECTRICAL OPEN/S
	8127	TV VIDEO INPUT PBI [T	FAILS TO SWITCH
	8128	TV VIDEO INPUT PBI [T	ELECTRICAL OPEN/S
	8129	TV VIDEO INPUT PBI [T	FAILS TO SWITCH
	8130	TV VIDEO INPUT PBI [T	ELECTRICAL OPEN/S
	8243	TVC A MONOCHROME LENS	FAILS TO SWITCH
	8244	TVC A MONOCHROME LENS	ELECTRICAL OPEN/S
	8245	TVC B MONOCHROME LENS	FAILS TO SWITCH
	8246	TVC B MONOCHROME LENS	ELECTRICAL OPEN/S
	8247	TVC C MONOCHROME LENS	FAILS TO SWITCH
	8248	TVC C MONOCHROME LENS	ELECTRICAL OPEN/S
	8249	TVC D MONOCHROME LENS	FAILS TO SWITCH
	8250	TVC D MONOCHROME LENS	ELECTRICAL OPEN/S
	8259	TVC A MONOCHROME LENS	FAILS TO SWITCH
	8260	TVC A MONOCHROME LENS	ELECTRICAL OPEN/S
	8261	TVC B MONOCHROME LENS	FAILS TO SWITCH
	8262	TVC B MONOCHROME LENS	ELECTRICAL OPEN/S
	8263	TVC C MONOCHROME LENS	FAILS TO SWITCH
	8264	TVC C MONOCHROME LENS	ELECTRICAL OPEN/S
	8265	TVC D MONOCHROME LENS	FAILS TO SWITCH
	8266	TVC D MONOCHROME LENS	ELECTRICAL OPEN/S
	8275	TVC A MONOCHROME LENS	FAILS TO SWITCH
	8276	TVC A MONOCHROME LENS	ELECTRICAL OPEN/S
	8277	TVC B MONOCHROME LENS	FAILS TO SWITCH
	8278	TVC B MONOCHROME LENS	ELECTRICAL OPEN/S
	8279	TVC C MONOCHROME LENS	FAILS TO SWITCH
	8280	TVC C MONOCHROME LENS	ELECTRICAL OPEN/S
	8281	TVC D MONOCHROME LENS	FAILS TO SWITCH
	8282	TVC D MONOCHROME LENS	ELECTRICAL OPEN/S
	8303	TVC A COLOR LENS ASSY	FAILS TO SWITCH
	8304	TVC A COLOR LENS ASSY	ELECTRICAL OPEN/S
	8305	TVC A COLOR LENS ASSY	FAILS TO SWITCH
	8306	TVC A COLOR LENS ASSY	ELECTRICAL OPEN/S
	8307	TVC A COLOR LENS ASSY	FAILS TO SWITCH
	8308	TVC A COLOR LENS ASSY	ELECTRICAL OPEN/S
	8309	TVC B COLOR LENS ASSY	FAILS TO SWITCH
	8310	TVC B COLOR LENS ASSY	ELECTRICAL OPEN/S
	8311	TVC B COLOR LENS ASSY	FAILS TO SWITCH
	8312	TVC B COLOR LENS ASSY	ELECTRICAL OPEN/S
	8313	TVC B COLOR LENS ASSY	FAILS TO SWITCH
	8314	TVC B COLOR LENS ASSY	ELECTRICAL OPEN/S
	8315	TVC C COLOR LENS ASSY	FAILS TO SWITCH
	8316	TVC C COLOR LENS ASSY	ELECTRICAL OPEN/S
	8317	TVC C COLOR LENS ASSY	FAILS TO SWITCH

APPENDIX D
POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
	8318	TVC C COLOR LENS ASSY	ELECTRICAL OPEN/S
	8319	TVC C COLOR LENS ASSY	FAILS TO SWITCH
	8320	TVC C COLOR LENS ASSY	ELECTRICAL OPEN/S
	8321	TVC D COLOR LENS ASSY	FAILS TO SWITCH
	8322	TVC D COLOR LENS ASSY	ELECTRICAL OPEN/S
	8323	TVC D COLOR LENS ASSY	FAILS TO SWITCH
	8324	TVC D COLOR LENS ASSY	ELECTRICAL OPEN/S
	8325	TVC D COLOR LENS ASSY	FAILS TO SWITCH
	8326	TVC D COLOR LENS ASSY	ELECTRICAL OPEN/S
	8363	CONSOLE MONITOR PWR S	FAILS TO SWITCH
	8364	CONSOLE MONITOR PWR S	OPEN/SHORT
	8368	CONSOLE MONITOR SYNC	OPEN/SHORT
	8374	CONSOLE MONITOR SOURC	OPEN/SHORT
	8376	CONSOLE MONITOR BRIGH	OPEN/SHORT
05-6PK-20201-1	8505	CB 39 FWD BAY TVC & P	FAIL OPEN
05-6PK-20202-1	8507	CB 40 FWD BAY TVC HTR	FAIL OPEN
05-6PK-20202-1	8509	CB 41 FWD BAY P/T HTR	FAIL OPEN
05-6PK-20201-1	8511	CB 34 AFT BAY TVC & P	FAIL OPEN
05-6PK-20202-1	8513	CB 35 AFT BAY TVC HTR	FAIL OPEN
05-6PK-20202-1	8515	CB 36 AFT BAY P/T HTR	FAIL OPEN
05-6PK-20201-1	8517	CB 45 KEEL/EVA TVC &	FAIL OPEN
05-6PK-20201-1	8519	CB 46 KEEL/EVA TVC HT	FAIL OPEN
05-6PK-20202-1	8521	CB 47 KEEL/EVA P/T HT	FAIL OPEN
	8527	CB 52 STBD RMS TVC HT	FAIL OPEN
	8529	CB 53 STBD RMS P/T HT	FAIL OPEN
05-6PK-20101-1	8531	CB 55 PORT RMS TVC &	FAIL OPEN
05-6PK-20102-1	8533	CB 56 PORT RMS TVC HT	FAIL OPEN
06-6PK-20102-1	8535	CB 57 PORT RMS P/T HT	FAIL OPEN
	10502	EMU/TV-BATTERY PACK	VENTING/EXPLOSION
05-6PH-24800-1	11007	GCIL DRIVER, NETWORK	LOSS OF OUTPUT
NONE	11008	GCIL DRIVER, KU-BAND	LOSS OF OUTPUT
05-6PH-24800-2	11009	GCIL DRIVER, KU-BAND	LOSS OF OUTPUT
05-6PH-24800-4	11010	GCIL DRIVER, CCTV SYS	LOSS OF OUTPUT
05-2G-23510-3	21073	SWITCH, QUAD ANTENNA	SHORTED
05-2G-212841-2	21078	DIODE, NSP ENCRYPTION	SHORTED
05-2R-5100-3	24062	KU BD EA-1 (INTERFACE	FAILS TO INHIBIT
05-2R-5200-3	24063	RR EA-2 (RADAR SIGNAL	FAILS TO COMMAND
05-2R-5300-3	24064	KU BD DEA (DEPLOYED E	LOSS OF TX INHIBI
05-2R-5300-6	24065	KU BD DEA (DEPLOYED E	LOSS OF CONTROL O
05-2B-22101-1	25015	SWITCH, UHF MODE ROTA	FAILS TO REMAIN O
05-2B-22101-2	25016	SWITCH, UHF MODE ROTA	SHORTED
05-2B-22101-4	25017	SWITCH, UHF MODE ROTA	SHORTED
05-2B-22101-5	25018	SWITCH, UHF MODE ROTA	FAILS TO REMAIN O
05-2A-21948-2	25020	SWITCH, UHF AIR-TO-AI	SHORTED
05-2A-21949-2	25023	SWITCH, UHF AIR-TO-AI	SHORTED
05-2C-22200-4	27056	TACAN	BLANKING PULSE FA
05-2C-22200-5	27057	TACAN	BLANKING PULSE FA
05-2D-23300-1	27059	RADAR ALTIMETER, ANTE	LOSS OF OUTPUT
05-2F-22601-2	27061	MSBLS RF WAVEGUIDE AS	BROKEN WAVEGUIDE

APPENDIX D
POTENTIAL CRITICAL ITEMS

NASA FMEA	MDAC-ID	ITEM	FAILURE MODE
2.4.4.2	28378	PAN AND TILT UNIT LIM	FAILS SHORTED
2.1.6.4	28384	MONOCHROME LENS ASSEM	FAILS SHORTED
2.3.6.4	28390	WIDE ANGLE LENS ASSEM	FAILS SHORTED
2.2.6.4	28400	COLOR LENS ASSEMBLY I	FAILS SHORTED



APPENDIX E DETAILED ANALYSIS

This appendix contains the IOA analysis worksheets supplementing previous results reported in STSEOS Working Paper 1.0-WP-VA87001-09, Analysis of the Communication and Tracking Subsystem (31 December 1987). Prior results were obtained independently and documented before starting the FMEA/CIL assessment activity. Supplemental analysis was performed to address failure modes not previously considered by the IOA. Each sheet identifies the hardware item being analyzed, parent assembly and function performed. For each failure mode possible causes are identified, and hardware and functional criticality for each mission phase are determined as described in NSTS 22206, Instructions for Preparation of FMEA and CIL, 10 October 1986. Failure mode effects are described at the bottom of each sheet and worst case criticality is identified at the top.

LEGEND FOR IOA ANALYSIS WORKSHEETS

Hardware Criticalities:

- 1 = Loss of life or vehicle
- 2 = Loss of mission or next failure of any redundant item (like or unlike) could cause loss of life/vehicle
- 3 = All others

Functional Criticalities:

- 1R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of life or vehicle.
- 2R = Redundant hardware items (like or unlike) all of which, if failed, could cause loss of mission.

Redundancy Screen A:

- 1 = Is Checked Out PreFlight
- 2 = Is Capable of Check Out PreFlight
- 3 = Not Capable of Check Out PreFlight
- NA = Not Applicable

Redundancy Screens B and C:

- P = Passed Screen
- F = Failed Screen
- NA = Not Applicable

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/08/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/2R
MDAC ID: 21071 ABORT: 3/3

ITEM: SWITCH, QUAD ANTENNA ROTARY SELECTOR
FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) S-BAND PM SYSTEM
- 3) SWITCH, QUAD ANTENNA SELECTOR
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/2R	TAL:	3/3
ONORBIT:	3/2R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [NA] C [P]

LOCATION: PANEL C3
PART NUMBER: ME452-0093-5042

CAUSES: CONTAMINATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

THE SWITCH PERMITS AUTOMATIC (GPC) OR MANUAL SELECTION FROM THE FOUR DUAL-BEAM QUAD ANTENNAS. LOSS OF ALL CAPABILITY TO SELECT OPTIMUM ANTENNA COULD REQUIRE VEHICLE ATTITUDE THAT WOULD RESULT IN LOSS OF PRIME MISSION OBJECTIVES.

REFERENCES: SCHEMATIC VS70-740259

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/08/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/2R
MDAC ID: 21072 ABORT: 3/3

ITEM: SWITCH, QUAD ANTENNA ROTARY SELECTOR
FAILURE MODE: PHYSICAL BINDING/JAMMING, SHORTED

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) S-BAND PM SYSTEM
- 3) SWITCH, QUAD ANTENNA SELECTOR
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/2R	TAL:	3/3
ONORBIT:	3/2R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [NA] C [P]

LOCATION: PANEL C3
PART NUMBER: ME452-0093-5042

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

THE SWITCH PERMITS AUTOMATIC (GPC) OR MANUAL SELECTION FROM THE FOUR DUAL-BEAM QUAD ANTENNAS. LOSS OF ALL CAPABILITY TO SELECT OPTIMUM ANTENNA COULD REQUIRE VEHICLE ATTITUDE THAT WOULD RESULT IN LOSS OF PRIME MISSION OBJECTIVES.

REFERENCES: SCHEMATIC VS70-740259

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/08/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/2
MDAC ID: 21073 ABORT: 3/3

ITEM: SWITCH, QUAD ANTENNA ROTARY SELECTOR
FAILURE MODE: SHORTED

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) S-BAND PM SYSTEM
- 3) SWITCH, QUAD ANTENNA SELECTOR
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	2/2	TAL:	3/3
ONORBIT:	2/2	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION:
PART NUMBER:

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

THE SWITCH PERMITS AUTOMATIC (GPC) OR MANUAL SELECTION FROM THE FOUR DUAL-BEAM QUAD ANTENNAS. SHORT TO GROUND COULD CAUSE LOSS OF BOTH GPC AND MANUAL SELECTION OF QUAD ANTENNAS, RESULTING IN LOSS OF MISSION.

REFERENCES: SCHEMATIC VS70-740259

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/08/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 21074 ABORT: 3/3

ITEM: SWITCH, NSP ENCRYPTION POWER ON-OFF
FAILURE MODE: SHORTED

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) S-BAND PM SYSTEM
- 3) SIGNAL PROCESSING
- 4) COMSEC
- 5) ENCRYPTION ON-OFF SWITCH
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL A1
PART NUMBER: ME452-0102-7201

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

BRIDING CONTACT SHORT COULD PREVENT POWER REMOVAL FROM COMSEC LRU
AND CAUSE LOSS OF ONE METHOD OF ZEROIZING ENCRYPTOR.

REFERENCES:

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/09/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/2R
MDAC ID: 21075 ABORT: 3/3

ITEM: SWITCH, QUAD/HEMI ANTENNA ELECTRONICS POWER
FAILURE MODE: PHYSICAL BINDING/JAMMING, OPEN (ELECTRICAL)

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) S-BAND PM SYSTEM
- 3) QUAD ANTENNAS
- 4) ANTENNA ELECTRONICS
- 5) POWER SWITCH
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/2R	TAL:	3/3
ONORBIT:	3/2R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [NA] C [P]

LOCATION: PANEL A1
PART NUMBER: ME452-0102-7203

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

THE SWITCH CONTROLS POWER TO ONE OF THE TWO REDUNDANT ANTENNA CONTROL ELECTRONICS SETS IN GCIL PANEL OR COMMAND MODE. LOSS OF ALL CAPABILITY TO CONTROL QUAD ANTENNA SELECTION COULD CAUSE LOSS OF MISSION OBJECTIVES, BUT VEHICLE ATTITUDE COULD BE CONTROLLED TO MAINTAIN S-BAND PM COMM.

REFERENCES: VS70-740259, VS70-740299

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/2R
MDAC ID: 21076 ABORT: 3/3

ITEM: SWITCH, QUAD/HEMI ANTENNA ELECTRONICS POWER
FAILURE MODE: SHORTED

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) S-BAND PM SYSTEM
- 3) QUAD ANTENNAS
- 4) ANTENNA ELECTRONICS
- 5) POWER SWITCH
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/2R	TAL:	3/3
ONORBIT:	3/2R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [NA] C [P]

LOCATION: PANEL A1
PART NUMBER: ME452-0102-7203

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

THE SWITCH CONTROLS POWER TO ONE OF THE TWO REDUNDANT ANTENNA CONTROL ELECTRONICS SETS IN GCIL PANEL OR COMMAND MODE. LOSS OF ALL CAPABILITY TO CONTROL QUAD ANTENNA SELECTION COULD CAUSE LOSS OF MISSION OBJECTIVES, BUT VEHICLE ATTITUDE COULD BE

REFERENCES: VS70-740259, VS70-740299

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/1R
MDAC ID: 21077 ABORT: 3/1R

ITEM: RELAY ASSEMBLY, PM TRANSPONDER SIGNAL STRENGTH
SELECT
FAILURE MODE: OPEN (ELECTRICAL), SHORTED

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) S-BAND PM SYSTEM
- 3) PM TRANSPONDER
- 4) SIGNAL STRENGTH SELECT
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/1R	TAL:	3/3
ONORBIT:	3/1R	AOA:	3/1R
DEORBIT:	3/3	ATO:	3/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [NA] C [P]

LOCATION: PANEL A1
PART NUMBER: ME452-0131-1002

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

PROVIDES CAPABILITY TO SELECT TRANSPONDER FOR RF RECEIVED SIGNAL STRENGTH. SHORT TO GROUND COULD CAUSE LOSS OF AFFECTED TRANSPONDER. WITH LOSS OF REDUNDANT TRANSPONDER ONLY REMAINING PATH FOR STATE VECTOR UPDATE IS UHF VOICE. LOSS OF THAT PATH COULD RESULT IN LOSS OF CREW/VEHICLE.

REFERENCES: VS70-740129

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/2
MDAC ID: 21078 ABORT: 3/3

ITEM: DIODE, NSP ENCRYPTION SELECT CIRCUIT
FAILURE MODE: SHORTED

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) S-BAND PM/NSP SYSTEM
- 3) NSP
- 4) ENCRYPTION SELECT ISOLATION DIODES
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	2/2	TAL:	3/3
ONORBIT:	2/2	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL A1
PART NUMBER: JANTXVIN4246

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

DIODES STEER MODE CONTROL SIGNALS TO NSP FOR "RECORD CLEAR" AND "RECORD ENCRYPTED" FUNCTIONS. FAILURE OF CR2, FOR EXAMPLE, COULD PERMIT CLASSIFIED INFORMATION TO BE RECORDED CLEAR AND THEN TRANSMITTED. SUCH FAILURE COULD CAUSE MISSION TERMINATION.

REFERENCES: VS70-740229

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/12/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 21079 ABORT: 3/3

ITEM: RESISTOR, QUAD ANTENNA POSITION INDICATOR
FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) S-BAND PM SYSTEM
- 3) QUAD ANTENNA CONTROLS
- 4) RESISTOR, ANTENNA POSITION INDICATOR
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL C3
PART NUMBER: RLR07C5101GR

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

THE FOUR RESISTORS ARE USED TO LIMIT CURRENT IN THE ANTENNA SELECTION INDICATION CIRCUIT. LOSS OF FUNCTION WOULD NOT AFFECT MISSION OR ENDANGER CREW/VEHICLE.

REFERENCES: VS70-740259

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/11/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 22514 ABORT: 3/3

ITEM: CIRCUIT, SWITCH SCAN, FM SYSTEM
FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) S-BAND FM SYSTEM
- 3) RF COMM
- 4) S-BAND FM RF SWITCH
- 5) SWITCH SCAN CIRCUIT
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL A1
PART NUMBER: RLR07C5101GR, JANTXVIN4246

CAUSES: CONTAMINATION, MISHANDLING/ABUSE, PIECE-PART FAILURE,
VIBRATION

EFFECTS/RATIONALE:

CIRCUIT PROVIDES TELEMETRY RF SWITCH SCAN INDICATION FOR S-BAND FM SYSTEM. CIRCUITRY INCLUDES ANTENNA SELECT SWITCH, FOUR RESISTORS, FOUR DIODES. LOSS OF CIRCUITRY FUNCTION WOULD NOT AFFECT MISSION OR CREW/VEHICLE.

REFERENCES: SHEMATIC VS70-740259

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/03/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/1R
MDAC ID: 23032 ABORT: 3/1R

ITEM: SWITCH, S-BAND PAYLOAD PNL/CMD GCIL
FAILURE MODE: SHORTED

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) S-BAND PL SYSTEM
- 3) GCIL MODE SWITCH
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/1R	TAL:	3/3
ONORBIT:	3/1R	AOA:	3/1R
DEORBIT:	3/1R	ATO:	3/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [P] C [P]

LOCATION: PANEL A1
PART NUMBER: MC452-0102-7201

CAUSES: CONTAMINATION, MISHANDLING/ABUSE, PIECE-PART FAILURE,
VIBRATION

EFFECTS/RATIONALE:

THE PNL/CMD GCIL SWITCH PERMITS PANEL CONTROL OF THE PAYLOAD COMM SYSTEM IN PNL MODE AND CONTROL VIA GROUND COMMANDS OR KEYBOARD IN CMD MODE. WORST-CASE SHORT TO GROUND COULD OPEN BOTH MNA, MNC CIRCUIT BREAKERS, KILLING COMMAND MODE FOR ALL FIVE GCIL COMM SYSTEMS, INCLUDING S-BAND PM. LOSS OF ALL PATHS FOR UPDATING STATE VECTOR, INCLUDING S-BAND PM IN PNL MODE AND UHF VOICE COULD RESULT IN LOSS OF CREW/VEHICLE.

REFERENCES: VS70-740239, SSSH 16.14, 16.15, 16.17, INCO/COMM SYS BRIEF 31, 34, JSC-12820 FLIGHT RULES SECTION 11, OMRSD V74 FILE III

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/03/88
SUBSYSTEM: COMM AND TRACK
MDAC ID: 23033

HIGHEST CRITICALITY HDW/FUNC
FLIGHT: 3/2R
ABORT: 3/3

ITEM: SWITCH, S-BAND PAYLOAD PNL/CMD GCIL
FAILURE MODE: SHORTED

LEAD ANALYST: A.W. ADDIS

SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) S-BAND PL SYSTEM
- 3) GCIL MODE SWITCH
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/2R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [P] C [P]

LOCATION: PANEL A1
PART NUMBER: MC452-0102-7201

CAUSES: CONTAMINATION, MISHANDLING/ABUSE, PIECE-PART FAILURE,
VIBRATION

EFFECTS/RATIONALE:

THE PNL/CMD SWITCH PERMITS PANEL CONTROL OF THE PAYLOAD COMM SYSTEM IN PNL MODE AND CONTROL VIA GROUND COMMANDS OR KEYBOARD IN CMD MODE. CONTACT-TO-CONTACT SHORTS COULD CAUSE LOSS OF PANEL MODE CONTROL. SUBSEQUENT FAILURE OF GCIL HARDWARE COULD CAUSE LOSS OF ALL CAPABILITY TO CONTROL THE SYSTEM, AND COULD RESULT IN LOSS OF MISSION OBJECTIVES.

REFERENCES: VS70-740239, SSSH 16.14, 16.15, 16.17, INCO/COMM SYS BRIEF 31, 34, JSC-12820 FLIGHT RULES SECTION 11, OMRSD V74 FILE III

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/2
MDAC ID: 24062 ABORT: 3/3

ITEM: KU BD EA-1 (INTERFACE AND CONTROL UNIT)
FAILURE MODE: FAILS TO INHIBIT TRANSMITTER WHILE ANT IN
OBSCURATION

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) KU COMM
- 3) KU-BAND COMM/RADAR
- 4) EA-1
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: BAY 3A
PART NUMBER: EA-1 MC403-0025-1001

CAUSES: MECHANICAL SHOCK, VIBRATION, CONTAMINATION, PIECE-PART
FAILURE, TEMPERATURE, LOSS OF INPUT

EFFECTS/RATIONALE:

COMM SECT OF KU-BD COMM/RDR SYS OPERATES IN SINGLE STRING CONFIG
TO PROVIDE A TDRSS LINK BETWEEN THE GND AND ORB. THE COMM SECT
PROVIDES ORB UP AND DOWNLINK DATA; UP VO/CMDS AND DN
VO/TLM/TV/RCDR PB DATA INCLUDING STATE VECTOR (SV) UPDATES. LOSS
OF ALL MEANS FOR PROVIDING THIS CAP VIA LIKE AND UNLIKE REDUND
COULD IN THE WORST CASE RESULT IN LOSS OF VEHICLE AND CREW.
(UNLIKE- REDUNDANCY EXITST VIA TWO S-BAND PM AND FM SYSTEMS PLUS
VO ONLY VIA UHF SYS.) LOSS OF SV UPDATES PRESENTS WORST CASE
CONDITION. FAILURE TO INHIBIT TX COULD CONTAMINATE P/L
EXPERIMENT AND RESULT IN LOSS OF MISSION. HIGH REFLECTED POEWR
WILL INITIATE TWT DISABLE WHILE IN THIS CONDITION.

REFERENCES: SYSTEM SCHEMATIC VS70-740109, SSSH 16.1 & 16.5, OMRS
NSTS 08171 FILE III, INCO/COMM/HSC-18611 BRIEF SECTION 18

REPORT DATE 03/18/88 E-14

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/2
MDAC ID: 24063 ABORT: 3/3

ITEM: RR EA-2 (RADAR SIGNAL PROCESSOR)
FAILURE MODE: FAILS TO COMMAND DA TO SELECT RF POWER SETTING

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) KU-BAND COMM/RADAR
- 4) RENDEZVOUS RADAR (RR)
- 5) EA-2 RADAR SIGNAL PROCESSOR
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/2	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: BAY 3A
PART NUMBER: EA2 MC409-0025-2001

CAUSES: MECHANICAL SHOCK, VIBRATION, CONTAMINATION, PIECE-PART
FAILURE, TEMPERATURE, LOSS OF INPUT

EFFECTS/RATIONALE:

THE RENDEZVOUS RADAR SECTION OF THE KU-BAND COMM/RADAR SYSTEM OPERATES IN A SINGLE STRING CONFIGURATION TO SEARCH, ACQUIRE, AND TRACK DETACHED PAYLOADS WITHIN 12 NM OF HTE ORBITER. THE RADAR PROVIDES TARGET DATA CONSISTING OF RANGE, RANGE RATE, ANGLE AND ANGLE RATE DURING RENDEZVOUS MANEUVERS. LOSS OF ALL CAPABILITY FOR DETERMINING THIS INFORMATION COULD RESULT IN LOSS OF PAYLOAD RECOVERY CAPABILITY WHICH COULD RESULT IN LOSS OF MISSION. (UNLIKE-REDUNDANCY FOR OBTAINING TARGET ANGLES EXISTS VIA THE STAR TRACKER AND COAS.) LOSS OF RR POWER LEVEL CONTROL COULD REDUCE OPERATIONS RANGE BELOW NEEDED CAPABILITY TO CAPTURE/TRACK DETACHED PAYLOAD OR SATELLITE RESULTING IN POSSIBLE LOSS OF MISSION.

REFERENCES: SYSTEM SCHEMATIC VS70-740109, SSSH 16.1 & 16.5, OMRS
NSTS 08171 FILE III, INCO/COMM/HSC-18611 BRIEF SECTION 18

REPORT DATE 03/18/88

E-15

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/2
MDAC ID: 24064 ABORT: 3/3

ITEM: KU BD DEA (DEPLOYED ELECTRONIC ASSY)
FAILURE MODE: LOSS OF TX INHIBIT, FAILS TO INHIBIT TX WHILE ANT
IN OBSCURATION ZONE

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) KU COMM
- 3) KU-BAND COMM/RADAR
- 4) DEA
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/2	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PAYLOAD BAY
PART NUMBER: KU DA MC403-0025-3001

CAUSES: MECHANICAL SHOCK, VIBRATION, CONTAMINATION, PIECE-PART
FAILURE, TEMPERATURE

EFFECTS/RATIONALE:

COMM SECT OF KU-BD COMM/RDR SYS OPERATES IN SINGLE STRING CONFIG
TO PROVIDE A TDRSS LINK BETWEEN THE GND AND ORB. THE COMM SECT
PROVIDES ORB UP AND DOWNLINK DATA; UP VO/CMDS AND DN
VO/TLM/TV/RCDR PB DATA INCLUDING STATE VECTOR (SV) UPDATES. LOSS
OF ALL MEANS FOR PROVIDING THIS CAP VIA LIKE AND UNLIKE REDUND
COULD IN THE WORST CASE RESULT IN LOSS OF VEHICLE AND CREW.
(UNLIKE- REDUNDANCY EXISTS VIA TWO S-BAND PM AND FM SYSTEMS PLUS
VO ONLY VIA UHF SYS.) LOSS OF SV UPDATE PRESENTS WORST CASE
CONDITION. DEA PROVIDES RCVR/EXCITER ELECTRONICS FOR
TRANSMISSION AND RECEPTION OF KU BD SIGNALS. FAILURE TO INHIBIT
TX COULD CONTAMINATE P.L RESULTING IN POTENTIAL LOSS OF MISSION.

REFERENCES: SYSTEM SCHEMATIC VS70-740109, SSSH 16.1 & 16.5, OMRS
NSTS 08171 FILE III, INCO/COMM/HSC-18611 BRIEF SECTION 18

REPORT DATE 03/18/88

E-16

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 24065 ABORT: 3/3

ITEM: KU BD DEA (DEPLOYED ELECTRONIC ASSY) THERMOSTATS
FAILURE MODE: LOSS OF CONTROL OF HEATER ELEMENTS

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) KU COMM
- 3) KU-BAND COMM/RADAR
- 4) DMA
- 5) THERMOSTATS
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/2	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: DDMA
PART NUMBER: MC409-0025-300X

CAUSES: MECHANICAL SHOCK, VIBRATION, CONTAMINATION, PIECE-PART
FAILURE, TEMPERATURE

EFFECTS/RATIONALE:

COMM SECT OF KU-BD COMM/RDR SYS OPERATES IN SINGLE STRING CONFIG
TO PROVIDE A TDRSS LINK BETWEEN THE GND AND ORB. THE COMM SECT
PROVIDES ORB UP AND DOWNLINK DATA; UP VO/CMDS AND DN
VO/TLM/TV/RCDR PB DATA INCLUDING STATE VECTOR (SV) UPDATES. LOSS
OF ALL MANS FOR PROVIDING THIS CAP VIA LIKE AND UNLIKE REDUND
COULD IN THE WORST CASE RESULT IN LOSS OF VEHICLE AND CREW.
(UNLIKE- REDUNDANCY EXISTS VIA TWO S-BAND PM AND FM SYSTEMS PLUS
VO ONLY VIA UHF SYS.) LOSS OF SV UPDATES PRESENTS WORST CASE
CONDITION. DMA PROVIDES ANTENNA AND GIMBAL MOTORS OF POINTING
ANT. EXCESSIVE TEMPERATURE COULD DAMAGE GIMBALS PREVENTING
ADEQUATE ANTENNA CONTROL. FAILURE WOULD CAUSE LOSS OF MISSION
AND LOSS OF ALL CAP COULD RESULT IN LOSS OF STOW CAP.

REFERENCES: SYSTEM SCHEMATIC VS70-740109, SSSH 16.1 & 16.5, OMRS
NSTS 08171 FILE III, INCO/COMM/HSC-18611 BRIEF SECTION 18

REPORT DATE 03/18/88

E-17

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/2R
MDAC ID: 24066 ABORT: 3/3

ITEM: KU BD DMA (DEPLOYED ELECTRONIC ASSY) TEMPERATURE
SENSOR
FAILURE MODE: LOSS OF TEMPERATURE MEASUREMENT

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) KU COMM
- 3) KU-BAND COMM/RADAR
- 4) DMA
- 5) TEMPERATURE SENSOR
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/2R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [P] C [P]

LOCATION: DDMA
PART NUMBER: MC405-0025-300X

CAUSES: MECHANICAL SHOCK, VIBRATION, CONTAMINATION, PIECE-PART
FAILURE, TEMPERATURE

EFFECTS/RATIONALE:

COMM SECT OF KU-BD COMM/RDR OPERATES IN SINGLE STRING CONFIG TO
PROVIDE A TDRSS LINK BETWEEN THE GND AND ORB. THE COMM SECT
PROVIDES ORB UP AND DOWNLINK DATA; UP VO/CMDs AND DN
VO/TLM/TV/RCDR PB DATA INCLUDING STATE VECTOR (SV) UPDATES. LOSS
OF ALL MEANS FOR PROVIDING THIS CAP VIA LIKE AND UNLIKE REDUND
COULD IN THE WORST CASE RESULT IN LOSS OF VEHICLE AND CREW.
(UNLIKE- REDUNDANCY EXISTS VIA TWO S-BAND PM AND FM SYSTEMS PLUS
VO ONLY VIA UHF SYS.) LOSS OF SV UPDATES PRESENTS WORST CASE
CONDITION. FAILURE OF SENSOR HAS NO EFFECT ON HEATER BUT
PREVENTS GND MONITORING OF TEMP AND FLT DIRECTOR COULD CURTAIL
MISSION. UNLIKE REDUNDANCY THERMOSTAT AND MANUAL ON/OFF CONTROL.

REFERENCES: SYSTEM SCHEMATIC VS70-740109, SSSH 16.1 & 16.5, OMRS
NSTS 08171 FILE III, INCO/COMM/HSC-18611 BRIEF SECTION 18

REPORT DATE 03/18/88 E-18

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/01/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 25015 ABORT: 2/1R

ITEM: SWITCH, UHF MODE ROTARY SELECTOR
FAILURE MODE: FAILS TO REMAIN OPEN/CLOSED, FAILS MID-TRAVEL,
FAILS TO OPEN/CLOSE, PHYSICAL BINDING/JAMMING, OPEN (ELECTRICAL)

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) UHF EVA/ATC SYSTEM
- 3) SWITCH, ROTARY MODE SELECTOR
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/2	AOA:	2/1R
DEORBIT:	2/1R	ATO:	2/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [P] C [P]

LOCATION: PANEL 06
PART NUMBER: ME452-0093-5027

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

INABILITY TO SELECT EVA MODE COULD CAUSE LOSS OF MISSION
OBJECTIVES DURING FLIGHT PHASE. WITH LOSS OF BOTH NSP's BECAUSE
OF POSSIBLE KU-BAND SIGNAL PROCESSOR FAILURE DISABLING BOTH
NSP's, UHF VOICE IS ONLY PATH FOR STATE VECTOR UPDATES. LOSS OF
UHF FUNCTION COULD RESULT IN LOSS OF CREW/VEHICLE.

REFERENCES: SCHEMATIC VS70-740119, SSSH 16.9

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/02/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 25016 ABORT: 2/2

ITEM: SWITCH, UHF MODE ROTARY SELECTOR
FAILURE MODE: SHORTED

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) UHF EVA/ATC SYSTEM
- 3) SWITCH, ROTARY MODE SELECTOR
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC	
PRELAUNCH:	3/3	RTLS:	3/3	
LIFTOFF:	3/3	TAL:	3/3	
ONORBIT:	2/2	AOA:	2/1R	
DEORBIT:	2/1R	ATO:	2/1R	
LANDING/SAFING:	3/3			

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL 06
PART NUMBER: ME452-0093-5027

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

A SHORT FROM "QUARD T/R" CONTACT TO THE WIPER COMMON COULD PREVENT USE OF BOTH 259.7 MHZ AND 296.8 MHZ TRANSCEIVERS FOR EVA OR COMM WITH GROUND. SYSTEM WOULD BE USEABLE ONLY ON QUARD FREQUENCY (243 MHZ), LOSS OF EVA COMM COULD CAUSE LOSS OF MISSION OBJECTIVES. WITH LOSS OF POWER TO BOTH NSP'S DUE TO POSSIBLE KU-BAND SIGNAL PROCESSOR FAILURE, ONLY UHF VOICE WOULD REMAIN FOR STATE VECTOR UPDATES. LOSS OF ALL CAPABILITY TO UPDATE STATE VECTOR COULD CAUSE LOSS OF CREW/VEHICLE.

REFERENCES: SCHEMATIC VS70-740119, SSSH 16.9

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/02/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 25017 ABORT: 2/2R

ITEM: SWITCH, UHF MODE ROTARY SELECTOR
FAILURE MODE: SHORTED

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) UHF EVA/ATC SYSTEM
- 3) SWITCH, ROTARY MODE SELECTOR
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/2R	AOA:	2/1R
DEORBIT:	2/1R	ATO:	2/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [P] C [P]

LOCATION: PANEL 06
PART NUMBER: ME452-0093-5027

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

A SHORT FROM "EVA" CONTACT TO WIPER COMMON WITH SWITCH IN "SIMPLEX" OR FROM "SIMPLEX" CONTACT TO WIPER COMMON WITH SWITCH IN "EVA" CAUSES LOSS OF RECEIVER SIGNAL ON 296.8 MHZ OR 259.7 MHZ, RESPECTIVELY, BECAUSE THE TRANSMITTER ON THE AFFECTED FREQUENCY WILL BE HELD ON. WITH ONLY ONE EVC TRANSMIT/ORBITER RECEIVE CHANNEL AVAILABLE, AN ADDITIONAL FAILURE AFFECTING THAT LINK WOULD CAUSE EVA TERMINATION AND POSSIBLE LOSS OF MISSION. WITH "EVA" MODE ACTIVATED, PA WOULD BE BY-PASSED, LIMITING UHF RANGE. WITH LOSS OF POWER TO BOTH NSP's DUE TO POSSIBLE KU-BAND SIGNAL PROCESSOR FAILURE, ONLY UHF VOICE WOULD REMAIN FOR STATE VECTOR UPDATES. LOSS OF ALL CAPABILITY TO UPDATE STATE VECOTR COULD CAUSE LOSS OF CREW/VEHICLE.

REFERENCES: SCHEMATIC VS70-740119, SSSH 16.9

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/02/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 25018 ABORT: 8/1R

ITEM: SWITCH, UHF MODE ROTARY SELECTOR
FAILURE MODE: FAILS TO REMAIN OPEN/CLOSED, FAILS MID-TRAVEL,
FAILS TO OPEN/CLOSE, PHYSICAL BINDING/JAMMING, OPEN (ELECTRICAL)

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) UHF EVA/ATC SYSTEM
- 3) SWITCH, ROTARY MODE SELECTOR
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/2	AOA:	2/1R
DEORBIT:	2/1R	ATO:	2/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [P] C [P]

LOCATION: PANEL 06
PART NUMBER: ME452-0093-5027

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

A SHORT FROM "EVA" CONTACT TO WIPER COMMON WITH SWITCH IN "SIMPLEX" OR FROM "SIMPLEX" CONTACT TO WIPER COMMON WITH SWITCH IN "EVA" CAUSES LOSS OF RECEIVER SIGNAL ON 296.8 MHZ OR 259.7 MHZ, RESPECTIVELY, BECAUSE THE TRANSMITTER ON THE AFFECTED FREQUENCY WILL BE HELD ON. WITH ONLY ONE EVC TRANSMIT/ORBITER RECEIVE CHANNEL AVAILABLE, AN ADDITIONAL FAILURE AFFECTING THAT LINK WOULD CAUSE EVA TERMINATION AND POSSIBLE LOSS OF MISSION. WITH "EVA" MODE ACTIVATED, PA WOULD BE BY-PASSED, LIMITING UHF RANGE. WITH LOSS OF POWER TO BOTH NSP'S DUE TO POSSIBLE KU-BAND SIGNAL PROCESSOR FAILURE, ONLY UHF VOICE WOULD REMAIN FOR STATE VECTOR UPDATES. LOSS OF ALL CAPABILITY TO UPDATE STATE VECOTR COULD CAUSE LOSS OF CREW/VEHICLE.

REFERENCES: SCHEMATIC VS70-740119, SSSH 16.9

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/1R
MDAC ID: 25019 ABORT: 3/1R

ITEM: SWITCH, UHF AIR-TO-AIR (AUDIO CENTER)
FAILURE MODE: PHYSICAL BINDING/JAMMING, OPEN (ELECTRICAL)

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) UHF SYSTEM
- 3) AUDIO CENTER
- 4) SWITCH, A/A
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/1R	TAL:	3/3
ONORBIT:	3/1R	AOA:	3/1R
DEORBIT:	3/1R	ATO:	3/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [P] C [P]

LOCATION: PANEL A1
PART NUMBER: ME452-0102-7201

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

SWITCH PERMITS USE OF AUDIO SYSTEM A/A LOOP WITH THE UHF TRANSCEIVER FOR TWO-WAY VOICE COMM ORBITER-TO-GROUND OR ORBITER-TO-EVA CREWMEMBER. LOSS OF ALL CAPABILITY TO USE THE UHF FOR EVA OPS (VIA A/A, A/G1, OR A/G2 LOOP) COULD CAUSE MISSION LOSS. LOSS OF ALL CAPABILITY TO USE S-BAND PM (A/G1, A/G2 LOOPS) AND UHF (ALL LOOPS) WITH GROUND WOULD CAUSE LOSS OF STATE VECTOR UPDATE AND COULD RESULT IN LOSS OF CREW/VEHICLE.

REFERENCES: SCHEMATIC VS70-740249

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 25020 ABORT: 3/1R

ITEM: SWITCH, UHF AIR-TO-AIR (AUDIO CENTER)
FAILURE MODE: SHORTED

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) UHF SYSTEM
- 3) AUDIO CENTER
- 4) SWITCH, A/A
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	2/1R	TAL:	3/3
ONORBIT:	2/1R	AOA:	3/1R
DEORBIT:	3/1R	ATO:	3/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [P] C [P]

LOCATION: PANEL A1
PART NUMBER: ME452-0102-7201

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

SWITCH PERMITS USE OF AUDIO SYSTEM A/A LOOP WITH THE UHF TRANSCEIVER FOR TWO-WAY VOICE COMM ORBITER-TO-GROUND OR ORBITER-TO-EVA CREWMEMBER. LOSS OF ALL CAPABILITY TO USE THE UHF FOR EVA OPS (VIA A/A, A/G1, OR A/G2 LOOP) COULD CAUSE MISSION LOSS. LOSS OF ALL CAPABILITY TO USE S-BAND PM (A/G1, A/G2 LOOPS) AND UHF (ALL LOOPS) WITH GROUND WOULD CAUSE LOSS OF STATE VECTOR UPDATE AND COULD RESULT IN LOSS OF CREW/VEHICLE. NOTE: LOSS OF BOTH NSP's BECAUSE OF A SINGLE FAILURE (DIODE SHORT IN KU-BAND SIGNAL PROCESSOR) PLUS A SHORT IN THIS SWITCH THAT DISABLES THE UHF TRANSCEIVER COULD CAUSE LOSS OF ABILITY TO UPDATE STATE VECTOR AND RESULT IN LOSS OF CREW/VEHICLE.

REFERENCES: SCHEMATIC VS70-740249

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 25021 ABORT: 3/3

ITEM: SWITCH, UHF AIR-TO-AIR (AUDIO CENTER)
FAILURE MODE: FAILS TO OPEN/CLOSE, PHYSICAL BINDING/JAMMING

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) UHF SYSTEM
- 3) AUDIO CENTER
- 4) SWITCH, A/A
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL A1
PART NUMBER: ME452-0102-7201

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

SWITCH PERMITS USE OF AUDIO SYSTEM A/A LOOP WITH THE UHF
TRANSCIVER FOR TWO-WAY VOICE COMM ORBITER-TO-GROUND OR ORBITER-
TO-EVA CREWMEMBER. CONTINUOUS RF OUTPUT CAUSED BY SWITCH JAMMED
IN "ON" POSITION WOULD NOT CAUSE MISSION LOSS OR THREATEN
CREW/VEHICLE.

REFERENCES: SCHEMATIC VS70-740249

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/1R
MDAC ID: 25022 ABORT: 3/1R

ITEM: SWITCH, UHF AIR-TO-AIR (AUDIO CENTER)
FAILURE MODE: PHYSICAL BINDING/JAMMING, OPEN (ELECTRICAL)

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) UHF SYSTEM
- 3) AUDIO CENTER
- 4) SWITCH, A/G1, A/G2
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/1R	TAL:	3/3
ONORBIT:	3/1R	AOA:	3/1R
DEORBIT:	3/1R	ATO:	3/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [P] C [P]

LOCATION: PANEL A1
PART NUMBER: ME452-0102-7201

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

SWITCH PERMITS USE OF AUDIO SYSTEM A/G1, A/G2 LOOPS WITH THE UHF TRANSCEIVER FOR TWO-WAY VOICE COMM ORBITER-TO-GROUND OR ORBITER-TO-EVA CREWMEMBER. LOSS OF ALL CAPABILITY TO USE THE UHF FOR EVA OPS (VIA A/A, A/G1, OR A/G2 LOOP) COULD CAUSE MISSION LOSS. LOSS OF ALL CAPABILITY TO USE S-BAND PM (A/G1, A/G2 LOOPS) AND UHF (ALL LOOPS) WITH GROUND WOULD CAUSE LOSS OF STATE VECTOR UPDATE AND COULD RESULT IN LOSS OF CREW/VEHICLE.

REFERENCES: SCHEMATIC VS70-740249

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 25023 ABORT: 3/1R

ITEM: SWITCH, UHF AIR-TO-AIR (AUDIO CENTER)
FAILURE MODE: SHORTED

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) UHF SYSTEM
- 3) AUDIO CENTER
- 4) SWITCH, A/G1, A/G2
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	2/1R	TAL:	3/3
ONORBIT:	2/1R	AOA:	3/1R
DEORBIT:	3/1R	ATO:	3/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [2] B [P] C [P]

LOCATION: PANEL A1
PART NUMBER: ME452-0102-7201

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

SWITCH PERMITS USE OF AUDIO SYSTEM A/G1, A/G2 LOOPS WITH THE UHF TRANSCEIVER FOR TWO-WAY VOICE COMM ORBITER-TO-GROUND OR ORBITER-TO-EVA CREWMEMBER. LOSS OF ALL CAPABILITY TO USE THE UHF FOR EVA OPS (VIA A/A, A/G1, OR A/G2 LOOP) COULD CAUSE MISSION LOSS. LOSS OF ALL CAPABILITY TO USE S-BAND PM (A/G1, A/G2 LOOPS) AND UHF (ALL LOOPS) WITH GROUND WOULD CAUSE LOSS OF STATE VECTOR UPDATE AND COULD RESULT IN LOSS OF CREW/VEHICLE. NOTE: LOSS OF BOTH NSP's BECAUSE OF A SINGLE FAILURE (DIODE SHORT IN KU-BAND SIGNAL PROCESSOR) PLUS A SHORT IN THIS SWITCH THAT DISABLES THE UHF TRANSCEIVER COULD CAUSE LOSS OF ABILITY TO UPDATE STATE VECTOR AND RESULT IN LOSS OF CREW/VEHICLE.

REFERENCES: SCHEMATIC VS70-740249

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/10/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 25024 ABORT: 3/3

ITEM: SWITCH, UHF AIR-TO-AIR (AUDIO CENTER)
FAILURE MODE: FAILS TO OPEN/CLOSE, PHYSICAL BINDING/JAMMING

LEAD ANALYST: A.W. ADDIS SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) UHF SYSTEM
- 3) AUDIO CENTER
- 4) SWITCH, A/G1, A/G2
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL A1
PART NUMBER: ME452-0102-7201

CAUSES: CONTAMINATION, PIECE-PART FAILURE, VIBRATION

EFFECTS/RATIONALE:

SWITCH PERMITS USE OF AUDIO SYSTEM A/G1, A/G2 LOOPS WITH THE UHF TRANSCEIVER FOR TWO-WAY VOICE COMM ORBITER-TO-GROUND OR ORBITER-TO-EVA CREWMEMBER. CONTINUOUS RF OUTPUT CAUSED BY SWITCH JAMMED IN "ON" POSITION WOULD NOT CAUSE MISSION LOSS OR THREATEN CREW/VEHICLE.

REFERENCES: SCHEMATIC VS70-740249

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 27052 ABORT: 3/3

ITEM: TACAN ID SWITCH
FAILURE MODE: ALL CREDIBLE FAILURES

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) TACAN
- 4) TACAN ID SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL A5 AND A9 S12, S13
PART NUMBER: ME452-0102-7106, ME4352-0102-7101

CAUSES: CONTAMINATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

TRIPLE REDUNDANT TACAN UNITS, IN THREE SINGLE STRINGS INCLUDING DEDICATED CONTROLS, OPERATE SIMULTANEOUSLY TO PROVIDE SLANT RANGE AND BEARING INFORMATION DURING DEORBIT FROM 160,000 FEET ALT DOWN TO 1500 FEET ALT OR 15 NM FROM LANDING. LOSS OF ALL CAPABILITY TO DETERMINING RANGE PLUS BEARING OR RANGE ONLY VIA LIKE AND UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY, TWO OTHER TACAN UNITS, AND UNLIKE-REDUNDANCY FOR DETERMINING RANGE AND BEARING VIA THE GN&C SUBSYSTEM AND STARTING 15 NM FROM LANDING VIA THE MSBLS.) TACAN ID TONE NOT NECESSARY FOR TACAN OPERATION. STATION DETERMINED BY KNOWN APPROXIMITY LOCATION AND CHANNEL NUMBER.

REFERENCES: SYSTEM SHEMATIC VS 70-740179, SSSH 9.2, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 1.

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 27053 ABORT: 3/3

ITEM: TACAN ID SWITCH
FAILURE MODE: ALL CREDIBLE FAILURES

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) TACAN
- 4) TACAN ID SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC	
PRELAUNCH:	3/3	RTLS:	3/3	
LIFTOFF:	3/3	TAL:	3/3	
ONORBIT:	3/3	AOA:	3/3	
DEORBIT:	3/3	ATO:	3/3	
LANDING/SAFING:	3/3			

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL A5 AND A9 S12, S13
PART NUMBER: ME452-0102-7106, ME4352-0102-7101

CAUSES: CONTAMINATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

TRIPLE REDUNDANT TACAN UNITS, IN THREE SINGLE STRINGS INCLUDING DEDICATED CONTROLS, OPERATE SIMULTANEOUSLY TO PROVIDE SLANT RANGE AND BEARING INFORMATION DURING DEORBIT FROM 160,000 FEET ALT DOWN TO 1500 FEET ALT OR 15 NM FROM LANDING. LOSS OF ALL CAPABILITY TO DETERMINING RANGE PLUS BEARING OR RANGE ONLY VIA LIKE AND UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY, TWO OTHER TACAN UNITS, AND UNLIKE-REDUNDANCY FOR DETERMINING RANGE AND BEARING VIA THE GN&C SUBSYSTEM AND STARTING 15 NM FROM LANDING VIA THE MSBLS.) TACAN ID TONE NOT NECESSARY FOR TACAN OPERATION. STATION DETERMINED BY KNOWN APPROXIMITY LOCATION AND CHANNEL NUMBER.

REFERENCES: SYSTEM SHEMATIC VS 70-740179, SSSH 9.2, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 1.

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 27054 ABORT: 3/3

ITEM: TACAN ID SWITCH
FAILURE MODE: ALL CREDIBLE FAILURES

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) TACAN
- 4) TACAN ID SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL A5 AND A9 S12, S13
PART NUMBER: ME452-0102-7106, ME4352-0102-7101

CAUSES: CONTAMINATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

TRIPLE REDUNDANT TACAN UNITS, IN THREE SINGLE STRINGS INCLUDING DEDICATED CONTROLS, OPERATE SIMULTANEOUSLY TO PROVIDE SLANT RANGE AND BEARING INFORMATION DURING DEORBIT FROM 160,000 FEET ALT DOWN TO 1500 FEET ALT OR 15 NM FROM LANDING. LOSS OF ALL CAPABILITY TO DETERMINING RANGE PLUS BEARING OR RANGE ONLY VIA LIKE AND UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY, TWO OTHER TACAN UNITS, AND UNLIKE-REDUNDANCY FOR DETERMINING RANGE AND BEARING VIA THE GN&C SUBSYSTEM AND STARTING 15 NM FROM LANDING VIA THE MSBLS.) TACAN ID TONE NOT NECESSARY FOR TACAN OPERATION. STATION DETERMINED BY KNOWN APPROXIMITY LOCATION AND CHANNEL NUMBER.

REFERENCES: SYSTEM SHEMATIC VS 70-740179, SSSH 9.2, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 1.

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 27055 ABORT: 3/3

ITEM: TACAN ID SWITCH
FAILURE MODE: ALL CREDIBLE FAILURES

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) TACAN
- 4) TACAN ID SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL A5 AND A9 S12, S13
PART NUMBER: ME452-0102-7106, ME4352-0102-7101

CAUSES: CONTAMINATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

TRIPLE REDUNDANT TACAN UNITS, IN THREE SINGLE STRINGS INCLUDING DEDICATED CONTROLS, OPERATE SIMULTANEOUSLY TO PROVIDE SLANT RANGE AND BEARING INFORMATION DURING DEORBIT FROM 160,000 FEET ALT DOWN TO 1500 FEET ALT OR 15 NM FROM LANDING. LOSS OF ALL CAPABILITY TO DETERMINING RANGE PLUS BEARING OR RANGE ONLY VIA LIKE AND UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY, TWO OTHER TACAN UNITS, AND UNLIKE-REDUNDANCY FOR DETERMINING RANGE AND BEARING VIA THE GN&C SUBSYSTEM AND STARTING 15 NM FROM LANDING VIA THE MSBLS.) TACAN ID TONE NOT NECESSARY FOR TACAN OPERATION. STATION DETERMINED BY KNOWN APPROXIMITY LOCATION AND CHANNEL NUMBER.

REFERENCES: SYSTEM SHEMATIC VS 70-740179, SSSH 9.2, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 1.

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 1/1
MDAC ID: 27056 ABORT: 3/1R

ITEM: TACAN
FAILURE MODE: BLANKING PULSE FAILS ON

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) TACAN
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/1R
LIFTOFF:	3/3	TAL:	3/1R
ONORBIT:	3/3	AOA:	3/1R
DEORBIT:	1/1	ATO:	3/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: 1 UNIT BAY 1, 1 UNIT BAY 2, 1 UNIT BAY 3A
PART NUMBER: MC409-0014-0006

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

THE TRIPLE REDUNDANT TACAN UNITS, IN THREE SINGLE STRINGS, OPERATE SIMULTANEOUSLY TO PROVIDE SLANT RANGE AND BEARING INFORMATION DURING DEORBIT FROM 160,000 FEET ALT DOWN TO 1500 FEET ALT OR 15 NM FROM LANDING. LOSS OF ALL CAPABILITY FOR DETERMINING RANGE PLUS BEARING OR RANGE ONLY VIA LIKE AND UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY, TWO OTHER TACAN UNITS, AND UNLIKE-REDUNDANCY FOR DETERMINING RANGE AND BEARING EXISTS VIA THE GN&C SUBSYSTEM AND STARTING 15 NM FROM LANDING VIA THE MSBLS.) FAILURE OF BLANKING PULSE TO TURN OFF WOULD RESULT IN LOSS OF TACAN FUNCTION FOR ALL THREE UNITS. BLANKING PULSE DISABLES ALL TACAN RECEIVERS.

REFERENCES: SYSTEM SHEMATIC VS 70-740179, SSSH 9.2, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 1.

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 1/1
MDAC ID: 27057 ABORT: 3/1R

ITEM: TACAN
FAILURE MODE: BLANKING PULSE FAILS OFF

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) TACAN
- 4)
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/1R
LIFTOFF:	3/3	TAL:	3/1R
ONORBIT:	3/3	AOA:	3/1R
DEORBIT:	1/1	ATO:	3/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: 1 UNIT BAY 1, 1 UNIT BAY 2, 1 UNIT BAY 3A
PART NUMBER: MC409-0014-0006

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

THE TRIPLE REDUNDANT TACAN UNITS, IN THREE SINGLE STRINGS, OPERATE SIMULTANEOUSLY TO PROVIDE SLANT RANGE AND BEARING INFORMATION DURING DEORBIT FROM 160,000 FEET ALT DOWN TO 1500 FEET ALT OR 15 NM FROM LANDING. LOSS OF ALL CAPABILITY FOR DETERMINING RANGE PLUS BEARING OR RANGE ONLY VIA LIKE AND UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY, TWO OTHER TACAN UNITS, AND UNLIKE-REDUNDANCY FOR DETERMINING RANGE AND BEARING EXISTS VIA THE GN&C SUBSYSTEM AND STARTING 15 NM FROM LANDING VIA THE MSBLS.) FAILURE OF BLANKING PULSE TO TURN ON WOULD REDUCE SENSITIVITY OF TACAN RECEIVERS REDUCING RANGE SO THAT STATE VECTOR UPDATES MAY NOT BE OBTAINED IMMEDIATELY AFTER BLACKOUT.

REFERENCES: SYSTEM SCHEMATIC VS 70-740179, SSSH 9.2, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 1.

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/1R
MDAC ID: 27058 ABORT: 3/1R

ITEM: TACAN ANTENNA
FAILURE MODE: LOSS OF OUTPUT

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) TACAN
- 4) ANTENNA
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC	
PRELAUNCH:	3/3	RTLS:	3/1R	
LIFTOFF:	3/3	TAL:	3/1R	
ONORBIT:	3/3	AOA:	3/1R	
DEORBIT:	3/1R	ATO:	3/1R	
. LANDING/SAFING:	3/3			

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: UPPER AND LOWER FUSELAGE
PART NUMBER: MC481-0068-0002

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

THE TRIPLE REDUNDANT TACAN UNITS, IN THREE SINGLE STRINGS, OPERATE SIMULTANEOUSLY TO PROVIDE SLANT RANGE AND BEARING INFORMATION DURING DEORBIT FROM 160,000 FEET ALT DOWN TO 1500 FEET ALT OR 15 NM FROM LANDING. LOSS OF ALL CAPABILITY FOR DETERMINING RANGE PLUS BEARING OR RANGE ONLY VIA LIKE AND UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY, TWO OTHER TACAN UNITS, AND UNLIKE-REDUNDANCY FOR DETERMINING RANGE AND BEARING EXISTS VIA THE GN&C SUBSYSTEM AND STARTING 15 NM FROM LANDING VIA THE MSBLS.) LOSS OF ALL CAPABILITY TO PERFORM ANTENNA FUNCTION WOULD RESULT IN LOSS OF TACAN FUNCTION.

REFERENCES: SYSTEM SCHEMATIC VS 70-740179, SSSH 9.2, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 1.

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 27059 ABORT: 2/1R

ITEM: RADAR ALTIMETER, ANTENNA
FAILURE MODE: LOSS OF OUTPUT

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) RADAR ALTIMETER
- 4) ANTENNA
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	2/1R
LIFTOFF:	3/3	TAL:	2/1R
ONORBIT:	3/3	AOA:	2/1R
DEORBIT:	2/1R	ATO:	2/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: LOWER FUSELAGE
PART NUMBER: MC481-0072-23300-1

CAUSES: CONTAMINATION, PIECE-PART FAILURE, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION

EFFECTS/RATIONALE:

DUAL REDUNDANT RADAR ALTIMETER UNITS, IN TWO SINGLE STRINGS, OPERATE SIMULTANEOUSLY TO PROVIDE ALTITUDE DURING THE DEORBIT PHASE FROM 5000 FT TO TOUCHDOWN. LOSS OF ALL CAPABILITY FOR DETERMINING ALTITUDE VIA LIKE OR UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY EXISTS VIA ANOTHER RADAR ALTIMETER STRING, AND UNLIKE REDUNDANCY FOR DETERMINING ALTITUDE EXIST VIA THE GN&C SUBSYSTEM AND THE BAROMETRIC ALTIMETER). LOSS OF ALL CAPABILITY TO PERFORM ANTENNA FUNCTION WOULD RESULT IN LOSS OF RA CAPABILITY. SECOND FAILURE COULD CAUSE LOSS OF RA FUNCTION.

REFERENCES: SYSTEM SHEMATIC VS 70-740179, SSSH 9.2, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 3.

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/1R
MDAC ID: 27060 ABORT: 3/1R

ITEM: MSBLS RF WAVEGUIDE ASSEMBLY
FAILURE MODE: RF LEAKAGE, SIGNAL LOSS

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) MSBLS
- 4) WAVEGUIDE ASSY
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/1R
LIFTOFF:	3/3	TAL:	3/1R
ONORBIT:	3/3	AOA:	3/1R
DEORBIT:	3/1R	ATO:	3/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: CABIN PRESSURE BULKHEAD
PART NUMBER: ME413-0038-0034

CAUSES: CONTAMINATION, PIECE-PART FAILURE, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION

EFFECTS/RATIONALE:

TRIPLE REDUNDANT MSBLS SETS, IN THREE SINGLE STRINGS, OPERATE SIMULTANEOUSLY TO PROVIDE SLANT RANGE, AZIMUTH AND ELEVATION ANGLES FROM 15 NM OUT THROUGH LANDING. LOSS OF ALL CAPABILITY FOR DETERMINING PARAMETERS VIA LIKE AND UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY, TWO OTHER MSBLS SETS, AND UNLIKE-REDUNDANCY EXISTS VIA THE GN&C SUBSYSTEM, SLANT RANGE AND BEARING DOWN TO 1500 FT VIA THE TACAN, AND ALTITUDE VIA THE RADAR AND BAROMETER ALTIMETERS FROM 5000 FT TO TOUCHDOWN.) THE GPC SOP WILL BLOCK USE OF DATA FROM AN MSBLS SET WHEN RANGE DATA IS LOST. RF LEAKAGE COULD REDUCE EFFECTIVE RANGE OF ONE MSBLS UNIT.

REFERENCES: SYSTEM SHEMATIC VS 70-740179, SSSH 9.2, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 2.

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 27061 ABORT: 2/1R

ITEM: MSBLS RF WAVEGUIDE ASSEMBLY
FAILURE MODE: BROKEN WAVEGUIDE

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) MSBLS
- 4) WAVEGUIDE ASSY
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	2/1R
LIFTOFF:	3/3	TAL:	2/1R
ONORBIT:	2/1R	AOA:	2/1R
DEORBIT:	2/1R	ATO:	2/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: CABIN PRESSURE BULKHEAD
PART NUMBER: ME413-0038-0034

CAUSES: CONTAMINATION, PIECE-PART FAILURE, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION

EFFECTS/RATIONALE:

TRIPLE REDUNDANT MSBLS SETS, IN THREE SINGLE STRINGS, OPERATE SIMULTANEOUSLY TO PROVIDE SLANT RANGE, AZIMUTH AND ELEVATION ANGLES FROM 15 NM OUT THROUGH LANDING. LOSS OF ALL CAPABILITY FOR DETERMINING PARAMETERS VIA LIKE AND UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY, TWO OTHER MSBLS SETS, AND UNLIKE-REDUNDANCY EXISTS VIA THE GN&C SUBSYSTEM, SLANT RANGE AND BEARING DOWN TO 1500 FT VIA THE TACAN, AND ALTITUDE VIA THE RADAR AND BAROMETER ALTIMETERS FROM 5000 FT TO TOUCHDOWN.) THE GPC SOP WILL BLOCK USE OF DATA FROM AN MSBLS SET WHEN RANGE DATA IS LOST. RF LEAKAGE COULD REDUCE EFFECTIVE RANGE OF ONE MSBLS UNIT, BUT SECOND BREAK COULD CAUSE LOSS OF PRESSURE IN CABIN ENDANGERING LIFE OR CREW.

REFERENCES: SYSTEM SCHEMATIC VS 70-740179, SSSH 9.2, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 2.

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88
SUBSYSTEM: COMM AND TRACK
MDAC ID: 27062

HIGHEST CRITICALITY HDW/FUNC
FLIGHT: 3/1R
ABORT: 3/1R

ITEM: MSBLS, ANTENNA
FAILURE MODE: LOSS OF OUTPUT

LEAD ANALYST: W.C. LONG

SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) MSBLS
- 4) ANTENNA
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/1R
LIFTOFF:	3/3	TAL:	3/1R
ONORBIT:	3/3	AOA:	3/1R
DEORBIT:	3/1R	ATO:	3/1R
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: LOWER FUSELAGE
PART NUMBER: MC481-00657-0001

CAUSES: CONTAMINATION, PIECE-PART FAILURE, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION

EFFECTS/RATIONALE:

TRIPLE REDUNDANT MSBLS SETS, IN THREE SINGLE STRINGS, OPERATE SIMULTANEOUSLY TO PROVIDE SLANT RANGE, AZIMUTH AND ELEVATION ANGLES FROM 15 NM OUT THROUGH LANDING. LOSS OF ALL CAPABILITY FOR DETERMINING PARAMETERS VIA LIKE AND UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY, TWO OTHER MSBLS SETS, AND UNLIKE-REDUNDANCY EXISTS VIA THE GN&C SUBSYSTEM, SLANT RANGE AND BEARING DOWN TO 1500 FT VIA THE TACAN, AND ALTITUDE VIA THE RADAR AND BAROMETER ALTIMETERS FROM 5000 FT TO TOUCHDOWN.) THE GPC SOP WILL BLOCK USE OF DATA FROM AN MSBLS SET WHEN RANGE DATA IS LOST. LOSS OF CAPABILITY TO PERFORM ANTENNA FUNCTION WOULD RESULT IN LOSS OF MSBLS FUNCTION.

REFERENCES: SYSTEM SCHEMATIC VS 70-740179, SSSH 9.2, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 2.

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/18/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 27063 ABORT: 3/3

ITEM: RA PWR SWITCH
FAILURE MODE: SHORTED CONTACTS, JAMS ON

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) RADAR ALTIMETER
- 4) RA PWR SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL 08
PART NUMBER: V070-730296 S4, S5

CAUSES: CONTAMINATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

DUAL REDUNDANT RADAR ALTIMETER UNITS, IN TWO SINGLE STRINGS, INCLUDING DEDICATED CONTROLS, OPERATE SIMULTANEOUSLY TO PROVIDE ALTITUDE DURING THE DEORBIT PHASE FROM 5000 FT TO TOUCHDOWN. LOSS OF ALL CAPABILITY FOR DETERMINING ALTITUDE VIA LIKE OR UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY EXISTS VIA ANOTHER RADAR ALTIMETER UNIT, AND UNLIKE REDUNDANCY FOR DETERMINING ALTITUDE EXISTS VIA THEGN&C SUBSYSTEM AND THE BAROMETRIC ALTIMETER.) SHORTED CONTACTS AND JAMMING ON WOULD ALLOW NORMAL OPERATION. CIRCUIT BREAKER COULD PROVIDE FOR MANUAL ON/OFF CONTROL.

REFERENCES: SYSTEM SHEMATIC VS70-740159, SSSH 9.3, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 3.

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/18/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 27064 ABORT: 3/3

ITEM: MLS POWER SWITCH
FAILURE MODE: SHORTED CONTACTS

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) MSBLS
- 4) MLS PWR SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PANEL 08
PART NUMBER: S8, S9, S10

CAUSES: CONTAMINATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

TRIPLE REDUNDANT MSBLS SETS, IN THREE SINGLE STRINGS INCLUDING DEDICATED CONTROLS, OPERATE SIMULTANEOUSLY TO PROVIDE SLANT RANGE, AZIMUTH AND ELEVATION ANGLES FROM 15 NM OUT THROUGH LANDING. LOSS OF ALL CAPABILITY FOR DETERMINING PARAMETERS VIA LIKE AND UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY, TWO OTHER MSBLS STRINGS, AND UNLIKE VIA THE GN&C SUBSYSTEM, SLANT RANGE AND BEARING VIA THE TACAN DOWN TO 1500 FT AND ALTITUDE VIA THE RADAR AND BAROMETRIC ALTIMETERS FROM 5000 FT TO TOUCHDOWN.) SHORTED OCNTACTS WOULD APPEAR AS A CLOSED SWITCH ALLOWING NORMAL OPERATION. CIRCUIT BREAKER CAN BE USED FOR MANUAL ON/OFF CONTROL.

REFERENCES: SYSTEM SHEMATIC VS 70-740569, SSSH 9.4, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 2.

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 2/13/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 27507 ABORT: 3/3

ITEM: RADAR ALTIMETER, RESISTOR R1
FAILURE MODE: OPEN (ELECTRICAL)

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) NAVAIDS
- 3) RADAR ALTIMETER
- 4) RESISTOR R1
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: 1 UNIT BAY 1, 1 UNIT IN BAY 2A4R1
PART NUMBER: RWR8051211FR

CAUSES: CONTAMINATION, PIECE-PART FAILURE, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION

EFFECTS/RATIONALE:

DUAL REDUNDANT RADAR ALTIMETER UNITS, IN TWO SINGLE STRINGS, OPERATE SIMULTANEOUSLY TO PROVIDE ALTITUDE DURING THE DEORBIT PHASE FROM 5000 FT TO TOUCHDOWN. LOSS OF ALL CAPABILITY FOR DETERMINING ALTITUDE VIA LIKE OR UNLIKE REDUNDANCY COULD CAUSE LOSS OF VEHICLE AND CREW. (LIKE REDUNDANCY EXISTS VIA ANOTHER RADAR ALTIMETER UNIT, AND UNLIKE REDUNDANCY FOR DETERMINING ALTITUDE EXISTS VIA THE GN&C SUBSYSTEM AND THE BAROMETRIC ALTIMETER.) RESISTOR PROVIDES SCAN CURRENT LIMITING. OPEN WOULD CAUSE LOSS OF SCAN WITH NO EFFECT ON SYSTEM OPERATION.

REFERENCES: SYSTEM SCHEMATIC VS70-740159, SSSH 9.3, OMRS NSTS 08171 FILE III, GN&C SYSTEM BRIEF JSC 18863 SECTION 3.

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28377 ABORT: 3/3

ITEM: PAN AND TILT UNIT LIMIT SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) PAN AND TILT UNIT (PTU)
- 4) LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: PAYLOAD BAY
PART NUMBER: 2294822

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP.) PTU PROVIDES TVC "A" POINTING CAPABILITY. LIMIT SWITCH NORMALLY OPEN, BUT MAY DAMAGE MOTOR WHEN MECHANICAL STOP IS ENCOUNTERED, SHOULD BE EASILY DETECTED WITHOUT INCIDENT.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171
INDEPENDENT ORBITER ASSESSMENT

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ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 28378 ABORT: 3/3

ITEM: PAN AND TILT UNIT LIMIT SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) PAN AND TILT UNIT (PTU)
- 4) LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/1R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: FWD PAYLOAD BAY PORT POSITION (TVC A)
PART NUMBER: 2294822

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP.) PTU PROVIDES TVC "A" POINTING CAPABILITY. SHORTED SWITCH RESULTS IN LOSS OF TARGET TRACK CAPABILITY AND EFFECTIVE CCTV COVERAGE RESULTING IN POSSIBLE LOSS OF VEHICLE AND CREW.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171
INDEPENDENT ORBITER ASSESSMENT

REPORT DATE 03/18/88

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ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28379 ABORT: 3/3

ITEM: PAN AND TILT UNIT LIMIT SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) PAN AND TILT UNIT (PTU)
- 4) LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: RMS ARM
PART NUMBER: 2294822

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP.) PTU PROVIDES TVC "A" POINTING CAPABILITY. LIMIT SWITCH NORMALLY OPEN, BUT MAY DAMAGE MOTOR WHEN MECHANICAL STOP IS ENCOUNTERED, SHOULD BE EASILY DETECTED WITHOUT INCIDENT.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171
INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

REPORT DATE 03/18/88

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C-4

DATE: 3/16/88
SUBSYSTEM: COMM AND TRACK
MDAC ID: 28380

HIGHEST CRITICALITY HDW/FUNC
FLIGHT: 3/2R
ABORT: 3/3

ITEM: PAN AND TILT UNIT LIMIT SWITCH
FAILURE MODE: SHORTED

LEAD ANALYST: W.C. LONG

SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) PAN AND TILT UNIT (PTU)
- 4) LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/2R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: RMS ARM
PART NUMBER: 2294822

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP AND RMS WRIST TVC TO VIEW RMS ACTIVITY). PTU PROVIDES RMS ELBOW TVC POINTING CAPABILITY. LIMIT SWITCH SHORT RESULTS IN LOSS OF TARGET TRACK CAPABILITY AND EFFECTIVE CCTV COVERAGE RESULTING IN POSSIBLE LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171
INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

REPORT DATE 03/18/88

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DATE: 3/16/88
SUBSYSTEM: COMM AND TRACK
MDAC ID: 28381

HIGHEST CRITICALITY HDW/FUNC
FLIGHT: 3/3
ABORT: 3/3

ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) MONOCHROME LENS ASSEMBLY (MLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: CABIN
PART NUMBER: 2294820

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP.) OPEN IRIS LIMIT SWITCH WOULD ALLOW FOR NORMAL OPERATION. NO CAUSE FOR LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28382 ABORT: 3/3

ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) MONOCHROME LENS ASSEMBLY (MLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: CABIN
PART NUMBER: 2294820

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP.) LIMIT SWITCH SHORT WOULD CAUSE LOSS OF TV CAMERA IRIS, CONTROL RESULTING IN LOSS OF EFFECTIVE CCTV CABIN FLT DECK COVERAGE. NO CAUSE FOR LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28383 ABORT: 3/3

ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) MONOCHROME LENS ASSEMBLY (MLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PAYLOAD BAY
PART NUMBER: 2294820

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP.) OPEN IRIS LIMIT SWITCH WOULD ALLOW FOR NORMAL OPERATION. NO CAUSE FOR LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 28384 ABORT: 3/3

ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) MONOCHROME LENS ASSEMBLY (MLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/1R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: PAYLOAD BAY
PART NUMBER: 2294820

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL
SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT
ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND
STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR,
RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS
VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS
STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND
CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND
COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND
STA/KEEP.) IRIS LIMIT SWITCH SHORT WOULD CAUSE LOSS OF TV CAMERA
IRIS, CONTROL RESULTING IN LOSS OF EFFECTIVE CCTV COVERAGE AND
POSSIBLE LOSS OF VEHICLE AND CREW.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH
16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28385 ABORT: 3/3

ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) MONOCHROME LENS ASSEMBLY (MLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: P/L BAY RMS WRIST TVC
PART NUMBER: 2294820

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL
SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT
ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND
STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR,
RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS
VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS
STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND
CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND
COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND
STA/KEEP.) OPEN IRIS LIMIT SWITCH WOULD ALLOW FOR NORMAL
OPERATION. NO CAUSE FOR LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH
16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/2R
MDAC ID: 28386 ABORT: 3/3

ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) MONOCHROME LENS ASSEMBLY (MLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/2R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: P/L BAY RMS WRIST TVC
PART NUMBER: 2294820

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP AND ELBOW TVC FOR VIEWING RMS ACTIVITY.) IRIS LIMIT SWITCH SHORT WOULD CAUSE LOSS OF TV CAMERA IRIS CONTROL RESULTING IN LOSS OF EFFECTIVE CCTV COVERAGE AND POSSIBLE LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28387 ABORT: 3/3

ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) MONOCHROME LENS ASSEMBLY (MLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: P/L BAY RMS ELBOW TVC
PART NUMBER: 2294820

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP.) OPEN IRIS LIMIT SWITCH WOULD ALLOW FOR NORMAL OPERATION. NO CAUSE FOR LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/2R
MDAC ID: 28388 ABORT: 3/3

ITEM: MONOCHROME LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) MONOCHROME LENS ASSEMBLY (MLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/2R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: P/L BAY RMS ELBOW TVC
PART NUMBER: 2294820

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP AND WRIST TVC FOR VIEWING RMS ACTIVITY.) IRIS LIMIT SWITCH SHORT WOULD CAUSE LOSS OF TV CAMERA IRIS CONTROL RESULTING IN LOSS OF EFFECTIVE CCTV COVERAGE AND POSSIBLE LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28389 ABORT: 3/3

ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) WIDE ANGLE LENS ASSEMBLY (WLA)
- 4) IRIS, FOCUS, ZOOM LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: PAYLOAD BAY
PART NUMBER: 2307088

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL
SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT
ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND
STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR,
RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS
VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS
STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND
CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND
COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND
STA/KEEP). OPEN LIMIT SWITCH WOULD NOT BE BASIS FOR LOSS OF
MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH
16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 28390 ABORT: 3/3

ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) WIDE ANGLE LENS ASSEMBLY (WLA)
- 4) IRIS, FOCUS, ZOOM LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/1R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: PAYLOAD BAY
PART NUMBER: 2307088

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL
SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT
ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND
STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR,
RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS
VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS
STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND
CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND
COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND
STA/KEEP). IROS FOCUS, ZOOM LIMIT SWITCH SHORT WOULD CAUSE LOSS
OF EITHER IRIS. FOCUS OR ZOOM CONTROL RESULTING IN LOSS OF
EFFECTIVE CCTV COVERAGE AND POSSIBLE LOSS OF VEHICLE AND CREW.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH
16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28391 ABORT: 3/3

ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) WIDE ANGLE LENS ASSEMBLY (WLA)
- 4) IRIS, FOCUS, ZOOM LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: CABIN
PART NUMBER: 2307088

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL
SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT
ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND
STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR,
RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS
VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS
STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND
CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND
COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND
STA/KEEP.) OPEN LIMIT SWITCH WOULD NOT BE BAISS FOR LOSS OF
MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH
16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28392 ABORT: 3/3

ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) WIDE ANGLE LENS ASSEMBLY (WLA)
- 4) IRIS, FOCUS, ZOOM LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: CABIN
PART NUMBER: 2307088

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL
SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT
ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND
STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR,
RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS
VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS
STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND
CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND
COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND
STA/KEEP.) SHORTED CABIN LIMIT SWITCH WOULD NOT BE BASIS FOR
LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH
16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28393 ABORT: 3/3

ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) WIDE ANGLE LENS ASSEMBLY (WLA)
- 4) IRIS, FOCUS, ZOOM LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: RMS ELBOW TVC
PART NUMBER: 2307088

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL
SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT
ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND
STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR,
RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS
VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS
STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND
CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND
COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND
STA/KEEP.) OPEN LIMIT SWITCH WOULD NOT BE BAISS FOR LOSS OF
MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH
16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/2R
MDAC ID: 28394 ABORT: 3/3

ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) WIDE ANGLE LENS ASSEMBLY (WLA)
- 4) IRIS, FOCUS, ZOOM LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/2R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: RMS ELBOW TVC
PART NUMBER: 2307088

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL
SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT
ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND
STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR,
RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS
VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS
STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND
CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND
COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND
STA/KEEP AND WRIST TVC FOR VIEWING RMS ACTIVITY.) IRIS LIMIT
SWITCH SHORT WOULD CAUSE LOSS OF TV CAMERA IRIS CONTROL RESULTING
IN LOSS OF EFFECTIVE CCTV COVERAGE AND POSSIBLE LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH
16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28395 ABORT: 3/3

ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH
FAILURE MODE: FALS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) WIDE ANGLE LENS ASSEMBLY (WLA)
- 4) IRIS, FOCUS, ZOOM LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: RMS WRIST TVC
PART NUMBER: 2307088

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL
SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT
ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND
STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR,
RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS
VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS
STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND
CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND
COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND
STA/KEEP.) OPEN LIMIT SWITCH WOULD NOT BE BASIS FOR LOSS OF
MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH
16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/2R
MDAC ID: 28396 ABORT: 3/3

ITEM: WIDE ANGLE LENS ASSEMBLY IRIS, FOCUS, ZOOM LIMIT
SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) WIDE ANGLE LENS ASSEMBLY (WLA)
- 4) IRIS, FOCUS, ZOOM LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/2R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: RMS WRIST TVC
PART NUMBER: 2307088

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL
SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT
ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND
STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR,
RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS
VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS
STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND
CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND
COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND
STA/KEEP.) SHORTED LIMIT SWITCH WOULD CAUSE LOSS OF TVC IRIS,
FOCUS, OR ZOOM CONTROL RESULTING IN LOSS OF EFFECTIVE CCTV
COVERAGE AND POSSIBLE LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH
16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28397 ABORT: 3/3

ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) COLOR LENS ASSEMBLY (CLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: CABIN TVC
PART NUMBER: 2294821

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP.) OPEN LIMIT SWITCH ALLOWS FOR NORMAL OPERATION. NOT CAUSE FOR LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28398 ABORT: 3/3

ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) COLOR LENS ASSEMBLY (CLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: CABIN TVC
PART NUMBER: 2294821

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP.) SHORTED IRIS LIMIT SWITCH WOULD CAUSE LOSS OF TV CAMERA IRIS CONTROL RESULTING IN LOSS OF EFFECTIVE CCTV COVERAGE OF CABIN. NOT CAUSE FOR LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28399 ABORT: 3/3

ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) COLOR LENS ASSEMBLY (CLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: P/L BAY
PART NUMBER: 2294821

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL
SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT
ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND
STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR,
RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS
VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS
STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND
CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND
COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND
STA/KEEP.) OPEN IRIS LIMIT SWITCH ALLOWS FOR NORMAL OPERATION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH
16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 2/1R
MDAC ID: 28400 ABORT: 3/3

ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) COLOR LENS ASSEMBLY (CLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	2/1R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: P/L BAY
PART NUMBER: 2294821

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP.) SHORTED IRIS LIMIT SWITCH WOULD CAUSE LOSS OF TV CAMERA IRIS CONTROL RESULTING IN LOSS OF EFFECTIVE CCTV COVERAGE AND POSSIBLE LOSS OF VEHICLE AND CREW.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28401 ABORT: 3/3

ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) COLOR LENS ASSEMBLY (CLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: P/L BAY RMS WRIST TVC
PART NUMBER: 2294821

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP AND ELBOW TVC FOR VIEWING RMS ACTIVITY.) OPEN IRIS LIMIT SWITCH ALLOWS FOR NORMAL OPERATION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

E-67

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/2R
MDAC ID: 28402 ABORT: 3/3

ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) COLOR LENS ASSEMBLY (CLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

CRITICALITIES

FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/2R	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: P/L BAY RMS WRIST TVC
PART NUMBER: 2294821

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP AND ELBOW TVC FOR VIEWING RMS ACTIVITY.) SHORTED IRIS LIMIT SWITCH WOULD CAUSE LOSS OF TV CAMERA IRIS CONTROL RESULTING IN LOSS OF EFFECTIVE CCTV COVERAGE AND POSSIBLE LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/3
MDAC ID: 28403 ABORT: 3/3

ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS OPEN

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) COLOR LENS ASSEMBLY (CLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES		
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC
PRELAUNCH:	3/3	RTLS:	3/3
LIFTOFF:	3/3	TAL:	3/3
ONORBIT:	3/3	AOA:	3/3
DEORBIT:	3/3	ATO:	3/3
LANDING/SAFING:	3/3		

REDUNDANCY SCREENS: A [] B [] C []

LOCATION: P/L BAY RMS ELBOW TVC
PART NUMBER: 2294821

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL
SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT
ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND
STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR,
RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS
VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS
STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND
CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND
COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND
STA/KEEP AND ELBOW TVC FOR VIEWING RMS ACTIVITY.) OPEN IRIS
LIMIT SWITCH ALLOWS FOR NORMAL OPERATION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH
16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

INDEPENDENT ORBITER ASSESSMENT
ORBITER SUBSYSTEM ANALYSIS WORKSHEET

DATE: 3/16/88 HIGHEST CRITICALITY HDW/FUNC
SUBSYSTEM: COMM AND TRACK FLIGHT: 3/2R
MDAC ID: 28404 ABORT: 3/3

ITEM: COLOR LENS ASSEMBLY IRIS LIMIT SWITCH
FAILURE MODE: FAILS SHORTED

LEAD ANALYST: W.C. LONG SUBSYS LEAD: A.W.ADDIS

BREAKDOWN HIERARCHY:

- 1) COMM & TRACK
- 2) CCTV
- 3) COLOR LENS ASSEMBLY (CLA)
- 4) IRIS LIMIT SWITCH
- 5)
- 6)
- 7)
- 8)
- 9)

	CRITICALITIES			
FLIGHT PHASE	HDW/FUNC	ABORT	HDW/FUNC	
PRELAUNCH:	3/3	RTLS:	3/3	
LIFTOFF:	3/3	TAL:	3/3	
ONORBIT:	3/2R	AOA:	3/3	
DEORBIT:	3/3	ATO:	3/3	
LANDING/SAFING:	3/3			

REDUNDANCY SCREENS: A [1] B [P] C [P]

LOCATION: P/L BAY RMS ELBOW TVC
PART NUMBER: 2294821

CAUSES: CONTAMINATION, TEMPERATURE, LOSS OF INPUT, MECHANICAL SHOCK, VIBRATION, PIECE-PART FAILURE

EFFECTS/RATIONALE:

CCTV SYS PROVIDES ESSENTIAL VISUAL FEEDBACK TO DOCUMENT ONORBIT ACTIVITIES, SUPPORT MISSION EXP OPS, ASSIST IN RENDEZ AND STA/KEEP OPS, INSPECT/MONITOR P/L BAY DOOR LATCHES, ORB EXTERIOR, RMS, AND ATTACHED P/L. LOSS OF ALL CAP TO OBTAIN CCTV FUNCTIONS VIA LIKE AND UNLIKE REDUND COULD IN THE WORST CASE PREVENT RMS STOW AND P/L BAY DOOR CLOSURE RESULTING IN LOSS OF VEHICLE AND CREW. (UNLIKE-REDUND CREW WINDOW VIEWING, RMS JETTISON, EVA AND COAS FOR CREW VISUAL INSPECTION AND KU BAND RADAR FOR RENDEZ AND STA/KEEP AND WRIST TVC FOR VIEWING RMS ACTIVITY.) SHORTED IRIS LIMIT SWITCH WOULD CAUSE LOSS OF TV CAMERA IRIS CONTROL RESULTING IN LOSS OF EFFECTIVE CCTV COVERAGE AND POSSIBLE LOSS OF MISSION.

REFERENCES: FLT RULES, SHUTTLE FLT OPS MANUAL JSC-12770, SSSH 16.1, .12, .13, .24, SYS SCHEMATIC VS70-740189, OMRSD NSTS 08171

REPORT DATE 03/18/88

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APPENDIX F

NASA FMEA TO IOA WORKSHEET CROSS REFERENCE/RECOMMENDATIONS

This section provides a cross reference between the NASA FMEA and corresponding IOA analysis worksheet(s) included in Appendix E. The Appendix F identifies: NASA FMEA Number, IOA Assessment Number, NASA criticality and redundancy screen data, and IOA recommendations.

Appendix F Legend

Code Definition

- 1 Because of the contract modification requiring earlier submittal of the assessment report, there was no time to attempt to resolve the issue with the subsystem manager.
- 2 IOA item for which there was no known NASA counterpart.

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APPENDIX F

NASA FMEA TO IOA WORKSHEET CROSS REFERENCE / RECOMMENDATIONS

IDENTIFIERS		NASA			IOA RECOMMENDATIONS *				
NASA FMEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C	CRIT HW/F	SCREENS A B C	OTHER (SEE LEGEND CODE)	ISSUE		
	CONTRK-10502	/		/		2	X		
	CONTRK-1065	3/2R	P NA P	/					
	CONTRK-1524	3/1R	F F P	/					
	CONTRK-1596	3/2R	P NA P	/					
	CONTRK-3016	3/2R	P NA P	/					
	CONTRK-3501	/		/					
	CONTRK-4004	/		3/1R	P P P	1, 2	X		
	CONTRK-4008	/		3/1R	P P P	1, 2	X		
	CONTRK-4033	/		3/1R	P P P	1, 2	X		
	CONTRK-4034	/		3/1R	P P P	1, 2	X		
	CONTRK-4037	/		3/1R	P P P	1, 2	X		
	CONTRK-4038	/		3/1R	P P P	1, 2	X		
	CONTRK-4039	/		3/1R	P P P	1, 2	X		
	CONTRK-4040	/		3/1R	P P P	1, 2	X		
	CONTRK-4041	/		1/1		1, 2	X		
	CONTRK-4042	/		1/1		1, 2	X		
	CONTRK-4043	/		1/1		1, 2	X		
	CONTRK-4044	/		1/1		1, 2	X		
	CONTRK-4514	/		2/1R	P F P	2	X		
	CONTRK-4515	/		3/3		2	X		
	CONTRK-4516	/		/					
	CONTRK-4517	/		/					
	CONTRK-4518	/		/					
	CONTRK-4519	/		/					
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	CONTRK-4538	/		/					
	CONTRK-4539	/		/					

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						
NASA FMEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			OTHER (SEE LEGEND CODE)	ISSUE
	COMTRK-4540	/				/					
	COMTRK-4541	/				/					
	COMTRK-4542	/				/					
	COMTRK-4543	/				/					
	COMTRK-6001	/				/					
	COMTRK-6002	/				/					
	COMTRK-6003	/				/					
	COMTRK-6004	/				/					
	COMTRK-6005	/				/					
	COMTRK-6006	/				/					
	COMTRK-6007	/				/					
	COMTRK-6008	/				/					
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	COMTRK-6017	/				/					
	COMTRK-6018	/				/					
	COMTRK-6019	/				/					
	COMTRK-6020	/				/					
	COMTRK-6021	/				/					
	COMTRK-7006	/				3/1R	P	P	P	2	X
	COMTRK-7009	/				3/1R	P	P	P	2	X
	COMTRK-7016	/				3/1R	P	P	P	1, 2	X
	COMTRK-7018	/				3/1R	P	P	P	1, 2	X
	COMTRK-7034	/				2/2				1, 2	X
	COMTRK-7038	/				2/2				1, 2	X
	COMTRK-7504	/				3/1R	P	P	P	1, 2	X
	COMTRK-8024I	3/3				/					
	COMTRK-8027D	2/1R	P	P	P	/					
	COMTRK-8073	/				/				2	
	COMTRK-8074	/				2/1R	P	P	P	1,2	X
	COMTRK-8075	/				/					
	COMTRK-8076	/				/					
	COMTRK-8085	/				3/2R	P	P	P	2	X
	COMTRK-8095	/				2/1R	P	P	P	1,2	X
	COMTRK-8096	/				2/1R	P	P	P	1,2	X
	COMTRK-8097	/				2/1R	P	P	P	1,2	X
	COMTRK-8098	/				2/1R	P	P	P	1,2	X
	COMTRK-8099	/				2/1R	P	P	P	1,2	X
	COMTRK-8100	/				2/1R	P	P	P	1,2	X
	COMTRK-8101	/				2/1R	P	P	P	1,2	X
	COMTRK-8102	/				2/1R	P	P	P	1,2	X
	COMTRK-8103	/				2/1R	P	P	P	1,2	X
	COMTRK-8104	/				2/1R	P	P	P	1,2	X
	COMTRK-8105	/				/				2	

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IDENTIFIERS		NASA		IOA RECOMMENDATIONS *						ISSUE
NASA FMEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C	CRIT HW/F	SCREENS A B C	OTHER (SEE LEGEND CODE)				
	COMTRK-8106	/		/				2		
	COMTRK-8107	/		/				2		
	COMTRK-8108	/		/				2		
	COMTRK-8109	/		/				2		
	COMTRK-8110	/		/				2		
	COMTRK-8111	/		/				2		
	COMTRK-8112	/		/				2		
	COMTRK-8113	/		/				2		
	COMTRK-8114	/		/				2		
	COMTRK-8115	/		/				2		
	COMTRK-8116	/		/				2		
	COMTRK-8117	/		/				2		
	COMTRK-8118	/		/				2		
	COMTRK-8119	/		/				2		
	COMTRK-8120	/		/				2		
	COMTRK-8121	/		/				2		
	COMTRK-8122	/		/				2		
	COMTRK-8123	/		2/1R	P P P			1,2	X	
	COMTRK-8124	/		2/1R	P P P			1,2	X	
	COMTRK-8125	/		2/1R	P P P			1,2	X	
	COMTRK-8126	/		2/1R	P P P			1,2	X	
	COMTRK-8127	/		2/1R	P P P			1,2	X	
	COMTRK-8128	/		2/1R	P P P			1,2	X	
	COMTRK-8129	/		2/1R	P P P			1,2	X	
	COMTRK-8130	/		2/1R	P P P			1,2	X	
	COMTRK-8131	/		3/2R	P P P			1,2	X	
	COMTRK-8132	/		3/2R	P P P			1,2	X	
	COMTRK-8133	/		/						
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	COMTRK-8137	/		/						
	COMTRK-8138	/		/						
	COMTRK-8139	/		/						
	COMTRK-8140	/		/						
	COMTRK-8141	/		3/1R	P P P			1,2	X	
	COMTRK-8142	/		3/1R	P P P			1,2	X	
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	COMTRK-8154	/		/						
	COMTRK-8155	/		/						

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						
NASA FMEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			OTHER (SEE LEGEND CODE)	ISSUE
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	COMTRK-8204	/				/					
	COMTRK-8205	/				/					

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IDENTIFIERS		NASA			IDA RECOMMENDATIONS *				
NASA FMEA NUMBER	IDA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C	CRIT HW/F	SCREENS A B C	OTHER (SEE LEGEND CODE)		ISSUE	
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	COMTRK-8208	/		/					
	COMTRK-8209	/		/					
	COMTRK-8210	/		/					
	COMTRK-8211	/		/					
	COMTRK-8212	/		/					
	COMTRK-8213	/		/					
	COMTRK-8214	/		/					
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	COMTRK-8219	/		/					
	COMTRK-8220	/		/					
	COMTRK-8221	/		/					
	COMTRK-8222	/		/					
	COMTRK-8223	/		/					
	COMTRK-8224	/		/					
	COMTRK-8225	/		/					
	COMTRK-8226	/		/					
	COMTRK-8227	/		/					
	COMTRK-8228	/		/					
	COMTRK-8229	/		/					
	COMTRK-8230	/		/					
	COMTRK-8231	/		/					
	COMTRK-8232	/		/					
	COMTRK-8233	/		/					
	COMTRK-8234	/		/					
	COMTRK-8235	/		/					
	COMTRK-8236	/		/					
	COMTRK-8237	/		/					
	COMTRK-8238	/		/					
	COMTRK-8239	/		/					
	COMTRK-8240	/		/					
	COMTRK-8241	/		/					
	COMTRK-8242	/		/					
	COMTRK-8243	/		2/1R	P P P	1,2		X	
	COMTRK-8244	/		2/1R	P P P	1,2		X	
	COMTRK-8245	/		2/1R	P P P	1,2		X	
	COMTRK-8246	/		2/1R	P P P	1,2		X	
	COMTRK-8247	/		2/1R	P P P	1,2		X	
	COMTRK-8248	/		2/1R	P P P	1,2		X	
	COMTRK-8249	/		2/1R	P P P	1,2		X	
	COMTRK-8250	/		2/1R	P P P	1,2		X	
	COMTRK-8251	/		3/2R	P P P	1,2		X	
	COMTRK-8252	/		3/2R	P P P	1,2		X	
	COMTRK-8253	/		3/2R	P P P	1,2		X	
	COMTRK-8254	/		3/2R	P P P	1,2		X	
	COMTRK-8255	/		/		1,2			

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IDENTIFIERS		NASA			IDA RECOMMENDATIONS *				
NASA FMEA NUMBER	IDA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C	CRIT HW/F	SCREENS A B C	OTHER (SEE LEGEND CODE)		ISSUE	
	CONTRK-8256	/		/		1,2			
	CONTRK-8257	/		/		1,2			
	CONTRK-8258	/		/		1,2			
	CONTRK-8259	/		2/1R	P P P			X	
	CONTRK-8260	/		2/1R	P P P			X	
	CONTRK-8261	/		2/1R	P P P			X	
	CONTRK-8262	/		2/1R	P P P			X	
	CONTRK-8263	/		2/1R	P P P			X	
	CONTRK-8264	/		2/1R	P P P			X	
	CONTRK-8265	/		2/1R	P P P			X	
	CONTRK-8266	/		2/1R	P P P			X	
	CONTRK-8267	/		3/2R	P P P	1,2		X	
	CONTRK-8268	/		3/2R	P P P	1,2		X	
	CONTRK-8269	/		3/2R	P P P	1,2		X	
	CONTRK-8270	/		3/2R	P P P	1,2		X	
	CONTRK-8271	/		/		1,2			
	CONTRK-8272	/		/		1,2			
	CONTRK-8273	/		/		1,2			
	CONTRK-8274	/		/		1,2			
	CONTRK-8275	/		2/1R	P P P	1,2		X	
	CONTRK-8276	/		2/1R	P P P	1,2		X	
	CONTRK-8277	/		2/1R	P P P	1,2		X	
	CONTRK-8278	/		2/1R	P P P	1,2		X	
	CONTRK-8279	/		2/1R	P P P	1,2		X	
	CONTRK-8280	/		2/1R	P P P	1,2		X	
	CONTRK-8281	/		2/1R	P P P	1,2		X	
	CONTRK-8282	/		2/1R	P P P	1,2		X	
	CONTRK-8283	/		3/2R	P P P	1,2		X	
	CONTRK-8284	/		3/2R	P P P	1,2		X	
	CONTRK-8285	/		3/2R	P P P	1,2		X	
	CONTRK-8286	/		3/2R	P P P	1,2		X	
	CONTRK-8287	/		/		1,2			
	CONTRK-8288	/		/		1,2			
	CONTRK-8289	/		/		1,2			
	CONTRK-8290	/		/		1,2			
	CONTRK-8291	/		/		1,2			
	CONTRK-8292	/		/		1,2			
	CONTRK-8293	/		/		1,2			
	CONTRK-8294	/		/		1,2			
	CONTRK-8295	/		/		1,2			
	CONTRK-8296	/		/		1,2			
	CONTRK-8297	/		/		1,2			
	CONTRK-8298	/		/		1,2			
	CONTRK-8299	/		/		1,2			
	CONTRK-8300	/		/		1,2			
	CONTRK-8301	/		/		1,2			
	CONTRK-8302	/		/		1,2			
	CONTRK-8303	/		2/1R	P P P	1,2		X	
	CONTRK-8304	/		2/1R	P P P	1,2		X	
	CONTRK-8305	/		2/1R	P P P	1,2		X	

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IDENTIFIERS		NASA		IOA RECOMMENDATIONS *				
NASA FMEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C	CRIT HW/F	SCREENS A B C	OTHER (SEE LEGEND CODE)	ISSUE	
	COMTRK-8306	/		2/1R	P P P	1,2		X
	COMTRK-8307	/		2/1R	P P P	1,2		X
	COMTRK-8308	/		2/1R	P P P	1,2		X
	COMTRK-8309	/		2/1R	P P P	1,2		X
	COMTRK-8310	/		2/1R	P P P	1,2		X
	COMTRK-8311	/		2/1R	P P P	1,2		X
	COMTRK-8312	/		2/1R	P P P	1,2		X
	COMTRK-8313	/		2/1R	P P P	1,2		X
	COMTRK-8314	/		2/1R	P P P	1,2		X
	COMTRK-8315	/		2/1R	P P P	1,2		X
	COMTRK-8316	/		2/1R	P P P	1,2		X
	COMTRK-8317	/		2/1R	P P P	1,2		X
	COMTRK-8318	/		2/1R	P P P	1,2		X
	COMTRK-8319	/		2/1R	P P P	1,2		X
	COMTRK-8320	/		2/1R	P P P	1,2		X
	COMTRK-8321	/		2/1R	P P P	1,2		X
	COMTRK-8322	/		2/1R	P P P	1,2		X
	COMTRK-8323	/		2/1R	P P P	1,2		X
	COMTRK-8324	/		2/1R	P P P	1,2		X
	COMTRK-8325	/		2/1R	P P P	1,2		X
	COMTRK-8326	/		2/1R	P P P	1,2		X
	COMTRK-8327	/		3/2R	P P P	1,2		X
	COMTRK-8328	/		3/2R	P P P	1,2		X
	COMTRK-8329	/		3/2R	P P P	1,2		X
	COMTRK-8330	/		3/2R	P P P	1,2		X
	COMTRK-8331	/		3/2R	P P P	1,2		X
	COMTRK-8332	/		3/2R	P P P	1,2		X
	COMTRK-8333	/		3/2R	P P P	1,2		X
	COMTRK-8334	/		3/2R	P P P	1,2		X
	COMTRK-8335	/		3/2R	P P P	1,2		X
	COMTRK-8336	/		3/2R	P P P	1,2		X
	COMTRK-8337	/		3/2R	P P P	1,2		X
	COMTRK-8338	/		3/2R	P P P	1,2		X
	COMTRK-8339	/		/		1,2		
	COMTRK-8340	/		/		1,2		
	COMTRK-8341	/		/		1,2		
	COMTRK-8342	/		/		1,2		
	COMTRK-8343	/		/		1,2		
	COMTRK-8344	/		/		1,2		
	COMTRK-8345	/		/		1,2		
	COMTRK-8346	/		/		1,2		
	COMTRK-8347	/		/		1,2		
	COMTRK-8348	/		/		1,2		
	COMTRK-8349	/		/		1,2		
	COMTRK-8350	/		/		1,2		
	COMTRK-8351	/		/		1,2		
	COMTRK-8352	/		/		1,2		
	COMTRK-8353	/		/		1,2		
	COMTRK-8354	/		/		1,2		
	COMTRK-8355	/		/		1,2		

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IDENTIFIERS		NASA			IDA RECOMMENDATIONS *						
NASA FMEA NUMBER	IDA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			OTHER (SEE LEGEND CODE)	ISSUE
	COMTRK-8356	/				/				1,2	
	COMTRK-8357	/				/				1,2	
	COMTRK-8358	/				/				1,2	
	COMTRK-8359	/				/				1,2	
	COMTRK-8360	/				/				1,2	
	COMTRK-8361	/				/				1,2	
	COMTRK-8362	/				/				1,2	
	COMTRK-8363	/				2/1R	P	P	P	1,2	X
	COMTRK-8364	/				2/1R	P	P	P	1,2	X
	COMTRK-8365	/				/				1,2	
	COMTRK-8366	/				/				1,2	
	COMTRK-8367	/				/				1,2	
	COMTRK-8368	/				2/1R	P	P	P	1,2	X
	COMTRK-8369	/				/				1,2	
	COMTRK-8370	/				/				1,2	
	COMTRK-8371	/				/				1,2	
	COMTRK-8372	/				/				1,2	
	COMTRK-8373	/				/				1,2	
	COMTRK-8374	/				2/1R	P	P	P	1,2	X
	COMTRK-8375	/				/				1,2	
	COMTRK-8376	/				2/1R	P	P	P	1,2	X
	COMTRK-8525	/				/				1,2	X
	COMTRK-8526	/				/				1,2	
	COMTRK-8527	/				2/1R	P	P	P	1,2	X
	COMTRK-8528	/				/				1,3	
	COMTRK-8529	/				2/1R	P	P	P	1,2	X
	COMTRK-8530	/				/				1,2	
	COMTRK-8532	/				/				1,2	
	COMTRK-8534	/				/				1,2	
	COMTRK-8536	/				/				1,2	
	COMTRK-9001	/				3/1R	P	NA	P	2	X
	COMTRK-9011	/				3/2R	P	P	P	2	X
	COMTRK-9012	/				3/2R	P	NA	P	2	X
	COMTRK-9021	/				3/3				2	X
	COMTRK-9031	/				3/3				2	X
	COMTRK-9041	/				3/1R	P	NA	P	2	X
	COMTRK-9042	/				3/1R	P	NA	P	2	X
	COMTRK-9054	/				/					X
	COMTRK-9061	3/3				/					
	COMTRK-9062	3/3				/					
	COMTRK-9063	3/3				/					
	COMTRK-9064	3/3				/					
	COMTRK-9065	/				/					
	COMTRK-9066	3/3				/					
	COMTRK-9067	3/3				/					
	COMTRK-9068	3/3				/					
	COMTRK-9069	3/3				/					
	COMTRK-9070	3/3				/					
	COMTRK-9071	3/3				/					
	COMTRK-9521	/				3/3				2	X

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						
NASA FMEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			OTHER (SEE LEGEND CODE)	ISSUE
	CONTRK-9541	/				3/1R	P	NA	P		
	CONTRK-9542	/				3/1R	P	NA	P	2	X
	CONTRK-9561	3/3				/					
	CONTRK-9562	3/3				/					
	CONTRK-9563	3/3				/					
	CONTRK-9564	3/3				/					
05-2A-21907-1	CONTRK-27052X	3/3				/					
05-2A-21907-3	CONTRK-27053X	3/3				/					
05-2A-21914-1	CONTRK-27054X	3/3				/					
05-2A-21914-2	CONTRK-27055X	3/3				/					
05-2A-21926-1	CONTRK-9051	3/1R	P	P	P	/					
05-2A-21926-2	CONTRK-9052	3/1R	P	P	P	/					
05-2A-21948-1	CONTRK-25019X	3/1R	P	P	P	/					
05-2A-21948-2	CONTRK-25020X	2/1R	P	P	P	/					
	CONTRK-25021X	3/1R	P	P	P	/					
05-2A-21949-1	CONTRK-25022X	3/1R	P	P	P	/					
05-2A-21949-2	CONTRK-25023X	2/1R	P	P	P	/					
05-2A-21949-3	CONTRK-25024X	3/3				/					
05-2A-21955-1	CONTRK-9053	3/3				/					
05-2B-22100-1	CONTRK-5003	2/2				/					
	CONTRK-5004	2/1R	P	P	P	/					
	CONTRK-5005	2/2				/					
	CONTRK-5006	2/1R	P	P	P	/					
05-2B-22100-2	CONTRK-5004A	2/1R	P	P	P	/					
	CONTRK-5006A	2/1R	P	P	P	/					
05-2B-22101-1	CONTRK-25015X	2/1R	P	P	P	/					
05-2B-22101-2	CONTRK-25016X	2/2				/					
05-2B-22101-4	CONTRK-25017X	2/1R	P	P	P	/					
05-2B-22101-5	CONTRK-25018X	2/1R	P	P	P	/					
05-2B-22103-2	CONTRK-5012	3/1R				/	P	P	P	1	X
	CONTRK-5013	2/2		X		/					
05-2B-22103-3	CONTRK-5014	2/2				/					
05-2B-22104-1	CONTRK-5007	2/1R	P	P	P	/					
	CONTRK-5010	3/3				3/1R	P	P	P	1	X
05-2B-22104-2	CONTRK-5008	3/3				/					
05-2B-22104-3	CONTRK-5009	2/1R	P	P	P	/					
05-2B-23400-1	CONTRK-5001	2/1R	P	P	P	/					
05-2B-23401-1	CONTRK-5002	3/2R	P	P	P	/					
05-2C-22200-1	CONTRK-7004	3/1R	P	P	P	/					
05-2C-22200-2	CONTRK-7002	2/1R	P	P	P	/					
	CONTRK-7003	2/1R	P	P	P	/					
05-2C-22200-4	CONTRK-27056X	2/1R	P	P	P	1/1				1	X
05-2C-22200-5	CONTRK-27057X	1/1				/					
05-2C-22201-1	CONTRK-7001	3/1R	P	P	P	/					
05-2C-22201-3	CONTRK-7001A	3/1R	P	P	P	/					
05-2C-22202-1	CONTRK-7005	3/1R	P	P	P	/					
05-2C-22202-2	CONTRK-7005A	3/1R	P	P	P	/					
05-2C-22204-2	CONTRK-7008	3/1R	P	P	P	/					
	CONTRK-7008A	3/1R	P	P	P	/					
05-2C-22212-1	CONTRK-7005B	3/1R	P	P	P	/					

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IDENTIFIERS		NASA			IDA RECOMMENDATIONS *				
NASA	IDA	CRIT	SCREENS			CRIT	SCREENS		
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C
					OTHER (SEE LEGEND CODE)				
05-2C-22212-2	CONTRK-7005C	3/1R	P	P	P	/			
05-2C-22214-1	CONTRK-7007	3/3				/			
05-2C-22214-2	CONTRK-7007A	3/1R	P	P	P	/			
05-2C-23000-1	CONTRK-27058X	3/1R	P	P	P	/			
05-2D-22700-1	CONTRK-7020	2/1R	P	P	P	/			
05-2D-22700-2	CONTRK-7021	1/1				/			
	CONTRK-7022	1/1				/			
05-2D-22700-3	CONTRK-7020A	2/1R	P	P	P	/			
05-2D-22700-4	CONTRK-7021A	1/1				/			
	CONTRK-7022A	1/1				/			
05-2D-23300-1	CONTRK-27059X	2/1R	P	P	P	/			
05-2F-22400-1	CONTRK-7013	3/1R	P	P	P	/			
05-2F-22400-2	CONTRK-7010	3/1R	P	P	P	/			
	CONTRK-7014	2/1R	P	P	P	/			
05-2F-22401-1	CONTRK-7015	3/1R	P	P	P	/			
05-2F-22403-1	CONTRK-7019	3/1R	P	P	P	/			
05-2F-22500-1	CONTRK-7011	3/1R	P	P	P	/			
05-2F-22500-2	CONTRK-7010A	3/1R	P	P	P	/			
	CONTRK-7012	3/1R	P	P	P	/			
05-2F-22601-1	CONTRK-27060X	3/1R	P	P	P	/			
05-2F-22601-2	CONTRK-27061X	2/1R	P	P	P	/			
05-2F-23100-1	CONTRK-27062X	3/1R	P	P	P	/			
05-26-21000-1	CONTRK-2001	3/3				/			
05-26-21050-1	CONTRK-2010	3/3				/			
05-26-21050-2	CONTRK-2011	3/3				/			
05-26-21110-1	CONTRK-2013	3/3				/			
	CONTRK-2014	3/3				/			
05-26-21110-2	CONTRK-2013A	3/3				/			
05-26-21110-3	CONTRK-2013B	3/3				/			
05-26-21200-1	CONTRK-1027	3/1R	P	NA	P	/			
	CONTRK-1028	3/1R	P	NA	P	/			
	CONTRK-1029	3/1R	P	NA	P	/			
	CONTRK-1030	3/1R	P	NA	P	/			
	CONTRK-1031	3/1R	P	NA	P	/			
	CONTRK-1032	3/1R	P	NA	P	/			
05-26-21204-1	CONTRK-1035	3/1R	P	NA	P	/			
05-26-21204-2	CONTRK-1035A	3/1R	P	NA	P	/			
05-26-21204-3	CONTRK-1036	2/2				/			
05-26-21204-4	CONTRK-1036A	3/2R	P	NA	P	/			
05-26-21207-1	CONTRK-1037	3/3				/			
	CONTRK-1038	3/3				/			
	CONTRK-1039	3/3				/			
	CONTRK-1040	3/3				/			
05-26-21208-1	CONTRK-21077X	3/1R	P	P	P	/			
05-26-21210-1	CONTRK-1013A	3/2R	P	NA	P	/			
	CONTRK-1014	3/2R	P	NA	P	/			
05-26-21210-2	CONTRK-1013	2/2				/			
05-26-21210-3	CONTRK-1013B	3/2R	P	NA	P	/			
05-26-21215-1	CONTRK-1019	3/2R	P	NA	P	/			
	CONTRK-1020	3/2R	P	NA	P	/			

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						
NASA	IOA	CRIT	SCREENS			CRIT	SCREENS			OTHER	ISSUE
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C	(SEE LEGEND CODE)	
05-26-21215-1	COMTRK-1022	3/2R	P	NA	P	/					
	COMTRK-1023	3/2R	P	NA	P	/					
05-26-21215-2	COMTRK-1021	3/2R	P	NA	P	/					
	COMTRK-1024	3/2R	P	NA	P	/					
05-26-21220-1	COMTRK-1016	3/2R	P	NA	P	/					
	COMTRK-1017	3/2R	P	NA	P	/					
	COMTRK-1018	3/2R	P	NA	P	/					
05-26-21227-2	COMTRK-1025	3/2R	P	NA	P	/					
	COMTRK-1026	3/3				/					
05-26-212841-2	COMTRK-21078X	2/2				/					
05-26-21500-1	COMTRK-1043	3/1R	P	NA	P	/					
	COMTRK-1044	3/1R	P	NA	P	/					
	COMTRK-1045	3/1R	P	NA	P	2/1R				1	X
	COMTRK-1046	3/1R	P	NA	P	2/1R				1	X
05-26-21531-1	COMTRK-1059	3/2R	P	NA	P	/					
05-26-21531-2	COMTRK-1060	2/2				/					
05-26-21532-1	COMTRK-1061	3/2R	P	NA	P	3/1R				1	X
05-26-21532-2	COMTRK-1062	2/2				/					
05-26-21533-1	COMTRK-1057	3/1R	P	NA	P	/					
05-26-21533-2	COMTRK-1058	2/2				/					
05-26-21534-1	COMTRK-1063	3/2R	P	NA	P	/					
05-26-21534-2	COMTRK-1064	2/2				/					
05-26-21535-2	COMTRK-1066	2/2				/					
05-26-21541-1	COMTRK-1643	3/2R	P	NA	P	/					
	COMTRK-1644	3/2R	P	NA	P	/					
	COMTRK-1645	3/2R	P	NA	P	/					
	COMTRK-1646	3/2R	P	NA	P	/					
	COMTRK-1647	3/2R	P	NA	P	/					
	COMTRK-1648	3/2R	P	NA	P	/					
	COMTRK-1649	3/2R	P	NA	P	/					
	COMTRK-1650	3/2R	P	NA	P	/					
	COMTRK-1651	3/2R	P	NA	P	/					
	COMTRK-1652	3/2R	P	NA	P	/					
	COMTRK-1653	3/2R	P	NA	P	/					
	COMTRK-1654	3/2R	P	NA	P	/					
05-26-21543-1	COMTRK-1639	3/1R	P	NA	P	/					
	COMTRK-1640	3/1R	P	NA	P	/					
	COMTRK-1641	3/1R	P	NA	P	/					
	COMTRK-1642	3/1R	P	NA	P	/					
05-26-21544-1	COMTRK-1655	3/2R	P	NA	P	/					
	COMTRK-1656	3/2R	P	NA	P	/					
	COMTRK-1657	3/2R	P	NA	P	/					
	COMTRK-1658	3/2R	P	NA	P	/					
	COMTRK-1659	3/2R	P	NA	P	/					
	COMTRK-1660	3/2R	P	NA	P	/					
	COMTRK-1661	3/2R	P	NA	P	/					
	COMTRK-1662	3/2R	P	NA	P	/					
05-26-21800-1	COMTRK-1047	3/2R	P	NA	P	/					
05-26-21800-2	COMTRK-1048	3/1R	P	NA	P	/					
05-26-21801-1	COMTRK-1051	3/2R	P	NA	P	2/2				1	X

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						
NASA	IOA	CRIT	SCREENS			CRIT	SCREENS			OTHER	ISSUE
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C	(SEE LEGEND CODE)	
05-26-21801-2	COMTRK-1052	2/1R	P	NA	P	2/2			1		X
05-26-21802-1	COMTRK-1053	3/2R	P	NA	P	2/2			1		X
05-26-21802-2	COMTRK-1054	2/1R	P	NA	P	2/2			1		X
05-26-21803-1	COMTRK-1055	3/2R	P	NA	P	3/3			1		X
05-26-21803-2	COMTRK-1056	3/3				2/2			1		X
05-26-21841-1	COMTRK-1663	3/2R	P	NA	P	/					
	COMTRK-1664	3/2R	P	NA	P	/					
	COMTRK-1665	3/2R	P	NA	P	/					
	COMTRK-1666	3/2R	P	NA	P	/					
05-26-22600-1	COMTRK-1001A	3/2R	P	NA	P	/					
05-26-22800-1	COMTRK-1001	2/2				/					
	COMTRK-1002	2/2				/					
05-26-22800-2	COMTRK-1003	2/2				/					
	COMTRK-1004	2/2				/					
05-26-22801-1	COMTRK-21079X	3/3				/					
05-26-22900-1	COMTRK-2008	3/3				/					
	COMTRK-2009	3/3				/					
05-26-23500-1	COMTRK-1009	3/2R	P	NA	P	/					
	COMTRK-1012	3/2R	P	NA	P	/					
05-26-23500-3	COMTRK-1005	2/2				/					
	COMTRK-1008	2/2				/					
05-26-23500-4	COMTRK-1006	2/2				/					
	COMTRK-1007	2/2				/					
	COMTRK-1008A	2/2				/					
	COMTRK-1010	2/2				/					
05-26-23510-1	COMTRK-21071X	3/2R	P	NA	P	/					
05-26-23510-2	COMTRK-21072X	3/2R	P	NA	P	/					
05-26-23510-3	COMTRK-21073X	2/2				/					
05-26-23521-1	COMTRK-22514X	3/3				/					
05-26-23522-1	COMTRK-2003	3/3				/					
05-26-23522-2	COMTRK-2004	3/3				/					
	COMTRK-2005	3/3				/					
	COMTRK-2006	3/3				/					
05-23-21300-1	COMTRK-3005	3/2R	P	NA	P	/					
	COMTRK-3006	3/2R	P	NA	P	/					
	COMTRK-3007	3/2R	P	NA	P	/					
	COMTRK-3008	3/2R	P	NA	P	/					
	COMTRK-3009	3/2R	P	NA	P	/					
	COMTRK-3010	3/2R	P	NA	P	/					
05-23-213013-1	COMTRK-3017	2/2				/					
05-23-213014-1	COMTRK-3019	2/2				/					
05-23-213014-2	COMTRK-3018	3/2R		NA		/					
05-23-21304-1	COMTRK-3022	3/2R	P	NA	P	/					
05-23-21304-2	COMTRK-3023	2/2				/					
05-23-21307-1	COMTRK-3030	3/2R	P	NA	P	/					
05-23-21307-2	COMTRK-3031	3/2R	P	NA	P	/					
05-23-21308-1	COMTRK-3026	3/2R	P	NA	P	/					
05-23-21308-2	COMTRK-3027	2/2				/					
05-23-21309-1	COMTRK-3024	3/2R	P	NA	P	/					
05-23-21309-2	COMTRK-3025	2/2				/					

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						ISSUE
NASA FMEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			OTHER (SEE LEGEND CODE)	
05-2J-21600-1	COMTRK-3011	3/2R	P	NA	P	/					
	COMTRK-3012	3/2R	P	NA	P	/					
	COMTRK-3013	3/2R	P	NA	P	/					
	COMTRK-3014	3/2R	P	NA	P	/					
05-2J-21615-1	COMTRK-3028	3/2R	P	P	P	/					
05-2J-21615-2	COMTRK-3029	2/2				/					
05-2J-23600-1	COMTRK-3003	2/2				/					
	COMTRK-3004	2/2				/					
05-2J-25500-1	COMTRK-3001	2/2				/					
05-2PG-21200-1	COMTRK-1033	3/1R	P	NA	P	/					
05-2PG-21200-2	COMTRK-1034	3/1R	P	NA	P	/					
05-2R-5100-1	COMTRK-4001	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4011	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4012	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4013	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4014	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4015	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4016	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4017	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4018	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4019	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4020	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4021	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4022	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4023	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-4024	2/1R	P	P	P	3/1R	P	P	P	1	X
	COMTRK-7026	2/1R	P	P	P	/					
	COMTRK-7027	2/1R	P	P	P	/					
	COMTRK-7028	2/1R	P	P	P	/					
05-2R-5100-2	COMTRK-4001A	3/1R	P	P	P	/					
	COMTRK-4011A	3/1R	P	P	P	/					
	COMTRK-4012A	3/1R	P	P	P	/					
	COMTRK-4013A	3/1R	P	P	P	/					
	COMTRK-4014A	3/1R	P	P	P	/					
	COMTRK-4015A	3/1R	P	P	P	/					
	COMTRK-4016A	3/1R	P	P	P	/					
	COMTRK-4017A	3/1R	P	P	P	/					
	COMTRK-4018A	3/1R	P	P		/					
	COMTRK-4019A	3/1R	P	P		/					
	COMTRK-4020A	3/1R	P	P	P	/					
	COMTRK-4021A	3/1R	P	P	P	/					
	COMTRK-4022A	3/1R	P	P	P	/					
	COMTRK-4023A	3/1R	P	P	P	/					
	COMTRK-4024A	3/1R	P	P	P	/					
	COMTRK-7026A	3/1R	P	P	P	2/2			1		X
	COMTRK-7027A	3/1R	P	P	P	2/2			1		X
	COMTRK-7028A	3/1R	P	P	P	2/2			1		X
05-2R-5100-3	COMTRK-24062X	2/2			/						
05-2R-5104-1	COMTRK-7044	3/1R	P	P	P	2/2			1		X
	COMTRK-7046	3/1R	P	P	P	2/2			1		X

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IDENTIFIERS		NASA			IDA RECOMMENDATIONS *						ISSUE
NASA FMEA NUMBER	IDA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			OTHER (SEE LEGEND CODE)	
05-2R-5104-2	CONTRK-7045	2/2				/					
	CONTRK-7047	2/2				/					
05-2R-5105-1	CONTRK-7048	3/1R	P	P	P	/					
05-2R-5105-2	CONTRK-7049	2/2				/					
05-2R-5107-1	CONTRK-4035	2/2				3/3			1		X
	CONTRK-4036	2/2				3/1R	P	P	P	1	X
	CONTRK-7041	2/2				/					
05-2R-5107-2	CONTRK-4035A	2/2				3/3			1		X
05-2R-5108-1	CONTRK-7050	3/2R	P	P	P	/					
05-2R-5108-2	CONTRK-7050A	3/3				/					
05-2R-5108-3	CONTRK-7051	2/2				/					
05-2R-5112-1	CONTRK-4025	2/2				3/1R			1		X
	CONTRK-7036	2/2				/					
05-2R-5112-2	CONTRK-4026	2/1R	P	P	P	3/1R	P	P	P	1	X
	CONTRK-7037	2/1R	P	P	P	/					
05-2R-5113-1	CONTRK-4027	2/2				3/1R	P	P	P	1	X
	CONTRK-7039	2/2				/					
05-2R-5113-2	CONTRK-4028	2/1R	P	P	P	3/1R	P	P	P	1	X
	CONTRK-7040	2/1R	P	P	P	/					
05-2R-5200-1	CONTRK-4002	2/2				3/3			1		X
	CONTRK-7029	2/2				/					
05-2R-5200-2	CONTRK-4002A	2/1R	P	P	P	3/3			1		X
05-2R-5200-3	CONTRK-24063X	2/2				/					
05-2R-5214-1	CONTRK-7042	2/2				/					
05-2R-5214-2	CONTRK-7043	2/1R	P	P	P	/					
05-2R-5300-1	CONTRK-4005	2/1R	P	P	P	3/1R	P	P	P	1	X
	CONTRK-4006	2/1R	P	P	P	3/1R	P	P	P	1	X
	CONTRK-4007	2/1R	P	P	P	3/1R	P	P	P	1	X
	CONTRK-4009	2/1R	P	P	P	3/1R	P	P	P	1	X
	CONTRK-7030	2/1R	P	P	P	/					
	CONTRK-7031	2/1R	P	P	P	/					
	CONTRK-7032	2/1R	P	P	P	/					
	CONTRK-7035	2/1R	P	P	P	/					
05-2R-5300-2	CONTRK-4005A	3/1R	P	P	P	/					
05-2R-5300-3	CONTRK-24064X	2/2				/					
	CONTRK-4005B	2/2				3/1R	P	P	P	1, 2	X
05-2R-5300-4	CONTRK-4010	2/1R	P	P	P	3/1R	P	P	P	1	X
	CONTRK-7033	2/1R	P	P	P	/					
05-2R-5300-5	CONTRK-7030A	2/2				/					
05-2R-5300-6	CONTRK-24065X	2/1R	P	P	P	/					
05-2R-5300-7	CONTRK-24066X	2/2				3/2R	P	P	P	1	X
05-2R-5400-1	CONTRK-4003	2/2				3/1R	P	P	P	1	X
05-2R-5400-2	CONTRK-4003A	2/1R	P	P	P	3/1R	P	P	P	1	X
05-2R-5411-1	CONTRK-4030	3/1R	P	P	P	/					
05-2R-5411-2	CONTRK-4029	3/1R	P	P	P	/					
05-2R-5412-1	CONTRK-4032	3/1R	P	P	P	/					
05-2R-5412-2	CONTRK-4031	3/2R	P	P	P	/					
05-2R-5415	CONTRK-4047	3/3				/					
	CONTRK-4048	3/3				/					
	CONTRK-4049	3/3				/					

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *				
NASA	IOA	CRIT	SCREENS			CRIT	SCREENS		
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C
								OTHER (SEE LEGEND CODE)	
05-2R-5415	COMTRK-4050	3/3				/			
	COMTRK-4051	3/3				/			
	COMTRK-4052	3/3				/			
	COMTRK-4053	3/3				/			
	COMTRK-4054	3/3				/			
	COMTRK-4055	3/3				/			
	COMTRK-4056	3/3				/			
	COMTRK-4057	3/3				/			
	COMTRK-4058	3/3				/			
	COMTRK-4059	3/3				/			
	COMTRK-4060	3/3				/			
	COMTRK-4061	3/3				/			
05-6PB-22107-1	COMTRK-5501	2/1R	P	P	P	/			
05-6PB-22107-2	COMTRK-5502	3/2R	P	P	P	/	F	1	X
	COMTRK-5503	3/2R	P	P	P	/	F	1	X
05-6PC-22206-1	COMTRK-7501	3/1R	P	P	P	/			
05-6PC-22206-2	COMTRK-7501A	3/3				/			
05-6PC-22212-1	COMTRK-7502	3/3				/			
05-6PD-22701-1	COMTRK-7023	2/1R	P	P	P	/			
	COMTRK-7024	2/1R	P	P	P	/			
	COMTRK-7025	2/1R	P	P	P	/			
05-6PD-22701-2	COMTRK-27063X	3/3				/			
05-6PD-22702-1	COMTRK-7506	2/1R	P	P	P	/			
05-6PD-22702-2	COMTRK-7506A	3/3				/			
05-6PD-22703-1	COMTRK-27507X	3/3				/			
05-6PF-22401-1	COMTRK-7017	3/1R	P	P	P	/			
05-6PF-22401-2	COMTRK-27064X	3/3				/			
05-6PF-22402-1	COMTRK-7503	3/1R	P	P	P	/			
05-6PF-22402-2	COMTRK-7503A	3/3				/			
05-6PF-22403-1	COMTRK-7505	3/3				/			
05-6PG-21001-1	COMTRK-2501	3/3				/			
	COMTRK-2502	3/3				/			
05-6PG-21001-2	COMTRK-2503	3/3				/			
	COMTRK-2504	3/3				/			
05-6PG-21002-1	COMTRK-2505	3/3				/			
	COMTRK-2506	3/3				/			
05-6PG-21050-1	COMTRK-2507	3/3				/			
05-6PG-21050-2	COMTRK-2508	3/3				/			
05-6PG-21050-3	COMTRK-2509	3/3				/			
05-6PG-21051-1	COMTRK-2510	3/3				/			
	COMTRK-2511	3/3				/			
	COMTRK-2512	3/3				/			
	COMTRK-2513	3/3				/			
05-6PG-21200-1	COMTRK-1519	3/1R	P	NA	P	/			
05-6PG-21200-2	COMTRK-1520	3/1R	P	NA	P	/			
05-6PG-21201-1	COMTRK-1526	3/1R	P	NA	P	/			
05-6PG-21201-2	COMTRK-1523	3/1R	F	F	P	/			
05-6PG-21202-1	COMTRK-1525	3/1R	P	NA	P	/			
05-6PG-21203-1	COMTRK-1527	3/1R	P	NA	P	/			
	COMTRK-1528	3/1R	P	NA	P	/			

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IDENTIFIERS		NASA			IDA RECOMMENDATIONS *					ISSUE	
NASA	IDA	CRIT	SCREENS			CRIT	SCREENS				OTHER
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C		(SEE LEGEND CODE)
05-6PG-21203-2	CONTRK-1529	3/3				/					
	CONTRK-1530	3/3				/					
05-6PG-21204-1	CONTRK-1531	3/1R	P	NA	P	/					
	CONTRK-1532	3/1R	P	NA	P	/					
05-6PG-21205-1	CONTRK-1533	3/1R	P	NA	P	/					
	CONTRK-1534	3/1R	P	NA	P	/					
05-6PG-21205-2	CONTRK-1535	3/1R	P	NA	P	/					
	CONTRK-1536	3/1R	P	NA	P	/					
05-6PG-21211-1	CONTRK-1537	3/2R	P	NA	P	/					
	CONTRK-1538	3/2R	P	NA	P	/					
05-6PG-21211-2	CONTRK-1539	3/2R	P	P	P	/					
	CONTRK-1540	3/2R	P	P	P	/					
05-6PG-21212-1	CONTRK-1513	3/2R	P	P	P	/					
	CONTRK-1514	3/2R	P	P	P	/					
	CONTRK-1515	3/2R	P	P	P	/					
	CONTRK-1516	3/2R	P	P	P	/					
	CONTRK-1541	3/2R	P	P	P	/					
	CONTRK-1542	3/2R	P	P	P	/					
05-6PG-21212-2	CONTRK-1543	3/3				/					
	CONTRK-1544	3/3				/					
05-6PG-21213-1	CONTRK-1545	3/2R	P	NA	P	/					
	CONTRK-1546	3/2R	P	NA	P	/					
	CONTRK-1547	3/2R	P	NA	P	/					
	CONTRK-1548	3/2R	P	NA	P	/					
05-6PG-21214-1	CONTRK-1511	3/2R	P	NA	P	/					
	CONTRK-1512	3/2R	P	NA	P	/					
	CONTRK-1549	3/2R	P	NA	P	/					
	CONTRK-1550	3/2R	P	NA	P	/					
05-6PG-21215-1	CONTRK-1551	3/2R	P	NA	P	/					
05-6PG-21215-2	CONTRK-1552	3/2R	P	NA	P	/					
05-6PG-21215-3	CONTRK-1553	3/3				/					
05-6PG-21216-1	CONTRK-1517	3/2R	P	NA	P	/					
	CONTRK-1518	3/2R	P	NA	P	/					
	CONTRK-1554	3/2R	P	NA	P	/					
	CONTRK-1555	3/2R	P	NA	P	/					
05-6PG-21216-2	CONTRK-1556	3/2R	F	F	P	/					
	CONTRK-1557	3/2R	F	F	P	/					
05-6PG-21217-1	CONTRK-1509	3/2R	P	NA	P	/					
	CONTRK-1510	3/2R	P	NA	P	/					
	CONTRK-1558	3/2R	P	NA	P	/					
	CONTRK-1559	3/2R	P	NA	P	/					
05-6PG-21221-1	CONTRK-1560	3/2R	P	NA	P	/					
	CONTRK-1561	3/2R	P	NA	P	/					
05-6PG-21221-2	CONTRK-1562	3/3				/					
	CONTRK-1563	3/3				/					
05-6PG-21223-1	CONTRK-1564	3/2R				/					
	CONTRK-1565	3/2R				/					
05-6PG-21223-2	CONTRK-1566	3/3				/					
	CONTRK-1567	3/3				/					
05-6PG-21224-1	CONTRK-1568	3/2R	P	NA	P	/					

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *				
NASA	IOA	CRIT	SCREENS		CRIT	SCREENS	OTHER	ISSUE	
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A B C		HW/F	A B C	(SEE LEGEND CODE)		
05-6PG-21224-1	CONTRK-1569	3/2R	P NA P		/				
05-6PG-21225-1	CONTRK-1570	3/2R	P NA P		/				
	CONTRK-1571	3/2R	P NA P		/				
05-6PG-21226-1	CONTRK-1572	3/2R	P NA P		/				
	CONTRK-1573	3/2R	P NA P		/				
05-6PG-21226-2	CONTRK-1574	3/3			/				
	CONTRK-1575	3/3			/				
05-6PG-21227-1	CONTRK-1576	3/2R	P NA P		/				
05-6PG-21227-2	CONTRK-1577	3/3			/				
05-6PG-21228-1	CONTRK-1505	3/2R	P NA P		/				
	CONTRK-1506	3/2R	P NA P		/				
	CONTRK-1507	3/2R	P NA P		/				
	CONTRK-1508	3/2R	P NA P		/				
	CONTRK-1578	3/2R	P NA P		/				
	CONTRK-1579	3/2R	P NA P		/				
	CONTRK-1580	3/2R	P NA P		/				
	CONTRK-1581	3/2R	P NA P		/				
05-6PG-21228-2	CONTRK-1582	3/2R	F F P		/				
	CONTRK-1583	3/2R	P F P		/				
	CONTRK-1584	3/2R	F F P		/				
	CONTRK-1585	3/2R	F F P		/				
05-6PG-21229-1	CONTRK-1501	3/2R	P NA P		/				
	CONTRK-1502	3/2R	P NA P		/				
	CONTRK-1586	3/2R	P NA P		/				
	CONTRK-1587	3/2R	P NA P		/				
05-6PG-21230-1	CONTRK-1503	3/2R	P NA P		/				
	CONTRK-1504	3/2R	P NA P		/				
	CONTRK-1588	3/2R	P NA P		/				
	CONTRK-1589	3/2R	P NA P		/				
05-6PG-21500-1	CONTRK-1610	3/1R	P NA P		/				
	CONTRK-1612	3/1R	P NA P		/				
05-6PG-21500-2	CONTRK-1611	3/1R	F F P		/				
	CONTRK-1613	3/1R	F F P		/				
05-6PG-21501-1	CONTRK-1069	3/1R	P NA P		/				
05-6PG-21501-2	CONTRK-1070	3/1R	P NA P		/				
05-6PG-21502-1	CONTRK-1608	3/1R	P NA P		/				
	CONTRK-1609	3/1R	P NA P		/				
05-6PG-21503-1	CONTRK-1631	3/1R	P NA P		/				
	CONTRK-1632	3/1R	P NA P		/				
	CONTRK-1635	3/1R	P NA P		/				
	CONTRK-1636	3/1R	P NA P		/				
05-6PG-21505-1	CONTRK-1633	3/1R	P NA P		/				
	CONTRK-1634	3/1R	P NA P		/				
05-6PG-21507-1	CONTRK-1606	3/1R	P NA P		/				
	CONTRK-1607	3/1R	P NA P		/				
05-6PG-21509-1	CONTRK-1629	3/1R	P NA P		/				
	CONTRK-1630	3/1R	P NA P		/				
05-6PG-21804-1	CONTRK-1050	2/2			/				
05-6PG-21804-3	CONTRK-21074X	3/3			/				
05-6PG-21815-1	CONTRK-1614	3/2R	P NA P		/				

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						
NASA	IOA	CRIT	SCREENS			CRIT	SCREENS			OTHER	ISSUE
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C	(SEE LEGEND CODE)	
05-6PG-21815-1	COMTRK-1615	3/2R	P	NA	P	/					
05-6PG-21825-1	COMTRK-1616	3/2R	P	P	P	/					
	COMTRK-1618	3/2R	P	P	P	/					
	COMTRK-1620	3/2R	P	P	P	/					
	COMTRK-1622	3/2R	P	P	P	/					
05-6PG-21825-2	COMTRK-1617	3/3				/					
	COMTRK-1619	3/3				/					
	COMTRK-1621	3/3				/					
	COMTRK-1623	3/3				/					
05-6PG-21835-1	COMTRK-1624	3/2R	P	P	P	/					
	COMTRK-1625	/				/					
	COMTRK-1626	3/2R	P	P	P	/					
	COMTRK-1627	3/2R	P	P	P	/					
05-6PG-21835-2	COMTRK-1628	3/3				/					
05-6PG-22000-1	COMTRK-1068A	3/1R	P	P	P	/					
05-6PG-22000-2	COMTRK-1068	2/2				2/1R	P	P	P	1	X
05-6PG-22000-3	COMTRK-1067	3/1R	P	P	P	/					
05-6PG-23501-1	COMTRK-1590	3/2R	P	NA	P	/					
	COMTRK-1591	3/2R	P	NA	P	/					
05-6PG-23501-2	COMTRK-1592	3/2R	P	NA	P	3/3			1		X
	COMTRK-1593	3/2R	P	NA	P	3/3			1		X
05-6PG-23502-1	COMTRK-1594	3/2R	P	NA	P	/					
	COMTRK-1595	3/2R	P	NA	P	/					
05-6PG-23528-1	COMTRK-1597	3/2R	P	NA	P	/					
05-6PG-23528-2	COMTRK-21075X	3/2R	P	NA	P	/					
	COMTRK-21076X	3/2R	P	NA	P	/					
05-6PG-23529-1	COMTRK-1598	3/2R	P	NA	P	/					
	COMTRK-1599	3/2R	P	NA	P	/					
05-6PG-23529-2	COMTRK-1600	3/2R	F	F	P	/					
	COMTRK-1601	3/2R	F	F	P	/					
05-6PG-23530-1	COMTRK-1602	3/2R	P	NA	P	/					
	COMTRK-1603	3/2R	P	NA	P	/					
05-6PG-23531-1	COMTRK-1604	3/2R	P	NA	P	/					
	COMTRK-1605	3/2R	P	NA	P	/					
05-6PH-24800-1	COMTRK-11001	3/1R	P	NA	P	/					
	COMTRK-11002	3/1R	P	NA	P	/					
	COMTRK-11003	3/1R	P	NA	P	/					
	COMTRK-11004	3/1R	P	NA	P	/					
	COMTRK-11007	3/1R	P	NA	P	2/1R	P	NA	P	1	X
05-6PH-24800-2	COMTRK-11009	2/2				/					
05-6PH-24800-3	COMTRK-11006	3/2R	P	P	P	/					
05-6PH-24800-4	COMTRK-11010	2/1R	P	P	P	/					
05-6PH-24800-5	COMTRK-11005	3/3				/					
05-6PH-24801-1	COMTRK-11501	3/1R	P	P	P	/					
	COMTRK-11502	3/3				/					
05-6PH-24803-1	COMTRK-1637	3/1R	P	P	P	/					
	COMTRK-1638	3/1R	P	P	P	/					
05-6PH-24805-1	COMTRK-1041	3/1R	P	P	P	/					
05-6PH-24805-2	COMTRK-1042	3/1R	P	P	P	/					
05-6PH-24810-1	COMTRK-2012	3/1R	P	P	P	/					

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IDENTIFIERS		NASA			IDA RECOMMENDATIONS *						ISSUE
NASA	IDA	CRIT	SCREENS			CRIT	SCREENS			OTHER	
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C	(SEE LEGEND CODE)	
05-6PH-24825-1	COMTRK-4046	3/1R	P	P	P	/					
05-6PH-24825-2	COMTRK-4046A	3/1R	P	P	P	/					
05-6PH-24825-3	COMTRK-4045	3/1R	P	P	P	/					
05-6PH-24830-1	COMTRK-23032X	3/1R	P	P	P	/					
05-6PH-24830-2	COMTRK-23033X	3/2R	P	P	P	/					
05-6PH-24830-3	COMTRK-3015	3/2R	P	P	P	/					
05-6PJ-213015-1	COMTRK-3502	3/2R	P	NA	P	/					
	COMTRK-3503	3/2R	P	NA	P	/					
05-6PJ-213016-1	COMTRK-3504	3/2R	P	NA	P	/					
	COMTRK-3505	3/2R	P	NA	P	/					
05-6PJ-213018-1	COMTRK-3518	3/2R	P	NA	P	/					
	COMTRK-3519	3/2R	P	NA	P	/					
05-6PJ-213019-1	COMTRK-3508	3/2R	P	NA	P	/					
	COMTRK-3509	3/2R	P	NA	P	/					
05-6PJ-213020-1	COMTRK-3506	3/2R	P	NA	P	/					
	COMTRK-3507	3/2R	P	NA	P	/					
	COMTRK-3522	3/2R	P	NA	P	/					
	COMTRK-3523	3/2R	P	NA	P	/					
05-6PJ-213021-1	COMTRK-3520	3/2R	P	NA	P	/					
	COMTRK-3521	3/2R	P	NA	P	/					
05-6PJ-236002-1	COMTRK-3021	2/2				/					
05-6PJ-236002-2	COMTRK-3020	3/2R	P	NA	P	/					
05-6PJ-236005-1	COMTRK-3510	3/2R	P	NA	P	/					
	COMTRK-3511	3/2R	P	NA	P	/					
	COMTRK-3512	3/2R	P	NA	P	/					
	COMTRK-3513	3/2R	P	NA	P	/					
	COMTRK-3524	3/2R	P	NA	P	/					
	COMTRK-3525	3/2R	P	NA	P	/					
	COMTRK-3526	3/2R	P	NA	P	/					
	COMTRK-3527	3/2R	P	NA	P	/					
05-6PJ-236006-1	COMTRK-3514	3/2R	P	NA	P	/					
	COMTRK-3515	3/2R	P	NA	P	/					
	COMTRK-3516	3/2R	P	NA	P	/					
	COMTRK-3517	3/2R	P	NA	P	/					
05-6PK-20101-1	COMTRK-8531	2/2				2/1R	P	P	P	1	X
05-6PK-20102-1	COMTRK-8533	2/2				2/1R	P	P	P	1	X
05-6PK-20201-1	COMTRK-8505	3/3				2/1R	P	P	P	1	X
	COMTRK-8506	3/3				/					
	COMTRK-8511	3/3				2/1R	P	P	P	1	X
	COMTRK-8512	3/3				/					
	COMTRK-8517	3/3				2/1R	P	P	P	1	X
	COMTRK-8518	3/3				/					
	COMTRK-8519	3/3				2/1R	P	P	P	1	X
	COMTRK-8523	3/3				/					
	COMTRK-8524	3/3				/					
05-6PK-20202-1	COMTRK-8507	3/3				2/1R	P	P	P	1	X
	COMTRK-8508	3/3				/					
	COMTRK-8509	3/3				2/1R	P	P	P	1	X
	COMTRK-8510	3/3				/					
	COMTRK-8513	3/3				2/1R	P	P	P	1	X

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						
NASA	IOA	CRIT	SCREENS			CRIT	SCREENS			OTHER	ISSUE
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C	(SEE LEGEND CODE)	
05-6PK-20202-1	COMTRK-8514	3/3				/					
	COMTRK-8515	3/3				2/1R	P	P	P	1	X
	COMTRK-8516	3/3				/					
	COMTRK-8520	3/3				/					
	COMTRK-8521	3/3				2/1R	P	P	P	1	X
	COMTRK-8522	3/3				/					
05-6PK-20203-1	COMTRK-8501	3/2R	P	P	P	/					
	COMTRK-8502	3/2R	P	P	P	3/3				1	X
05-6PK-20204-1	COMTRK-8503	3/2R	P	P	P	/					
	COMTRK-8504	3/2R	P	P	P	3/3				1	X
05-6PK-20402-1	COMTRK-8069	3/2R	P	P	P	2/1R	P	P	P	1	X
	COMTRK-8070	3/2R	P	P	P	2/1R	P	P	P	1	X
	COMTRK-8071	3/2R	P	P	P	3/3				1	X
	COMTRK-8072	3/2R	P	P	P	3/3				1	X
05-6PK-20409-1	COMTRK-8086	2/2				/					
05-6PK-20409-2	COMTRK-8086A	2/2				/					
05-6PK-20501-1	COMTRK-8077	3/3				2/1R	P	P	P	1	X
	COMTRK-8078	3/3				2/1R	P	P	P	1	X
	COMTRK-8079	3/3				2/1R	P	P	P	1	X
	COMTRK-8080	3/3				2/1R	P	P	P	1	X
	COMTRK-8081	3/3				2/1R	P	P	P	1	X
	COMTRK-8082	3/3				2/1R	P	P	P	1	X
	COMTRK-8083	3/3				2/1R	P	P	P	1	X
	COMTRK-8084	3/3				2/1R	P	P	P	1	X
	COMTRK-8087	3/3				/					
	COMTRK-8088	3/3				/					
	COMTRK-8089	3/3				/					
	COMTRK-8090	/				/					
05-6PR-51050-1	COMTRK-4503	2/1R	P	P	P	/					
05-6PR-51050-2	COMTRK-4504	3/3				/					
05-6PR-51051-1	COMTRK-4510	2/2	P	P	P	/					
05-6PR-51052-1	COMTRK-4511	2/1R	P	P	P	/					
05-6PR-51053-1	COMTRK-4508	2/1R	P	P	P	/					
05-6PR-51053-2	COMTRK-4509	3/3				/					
05-6PR-53024-1	COMTRK-4505	2/2				/					
05-6PR-53024-2	COMTRK-4506	3/1R	P	P	P	3/3					
05-6PR-53025-1	COMTRK-4507	3/3				/					
05-6PR-53055-1	COMTRK-4512	2/1R	P	P	P	/					
05-6PR-53067-1	COMTRK-4513	2/2				/					
05-6PR-54050-1	COMTRK-4501	2/2	P	P	P	/					
05-6PR-54050-2	COMTRK-4502	3/3				/					
06-6PK-20102-1	COMTRK-8535	2/2				2/1R	P	P	P	1	X
1.1.1	COMTRK-8004	2/1R	P	P	P	/					
	COMTRK-8005	2/1R	P	P	P	/					
1.1.10	COMTRK-8004H	2/2				/					
	COMTRK-8005H	2/2				/					
1.1.11.1	COMTRK-8004I	2/2				/					
	COMTRK-8005I	2/2				/					
1.1.11.2	COMTRK-8004C	2/1R	P	P	P	/					
	COMTRK-8005C	2/1R	P	P	P	/					

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS #						
NASA	IOA	CRIT	SCREENS			CRIT	SCREENS			OTHER	ISSUE
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C	(SEE LEGEND CODE)	
1.1.12.1	COMTRK-8004J	2/2				/					
	COMTRK-8005J	2/2				/					
1.1.12.2	COMTRK-8004K	2/2				/					
	COMTRK-8005K	2/2				/					
1.1.13	COMTRK-8004V	3/3				/					
	COMTRK-8005V	3/3				/					
1.1.14	COMTRK-8004W	3/3				/					
	COMTRK-8005W	3/3				/					
1.1.15	COMTRK-8004D	2/1R	P	P	P	/					
	COMTRK-8005D	2/1R	P	P	P	/					
1.1.16	COMTRK-8004L	3/1R	P	P	P	/					
	COMTRK-8005L	3/1R	P	P	P	/					
1.1.17	COMTRK-8004M	3/1R	P	P	P	/					
	COMTRK-8005M	3/1R	P	P	P	/					
1.1.18	COMTRK-8004N	3/1R	P	P	P	/					
	COMTRK-8005N	3/1R	P	P	P	/					
1.1.19	COMTRK-8004E	2/1R	P	P	P	/					
	COMTRK-8005E	2/1R	P	P	P	/					
1.1.2	COMTRK-8004A	2/1R	P	P	P	/					
	COMTRK-8005A	2/1R	P	P	P	/					
1.1.20	COMTRK-8004Y	3/3				/					
	COMTRK-8005Y	3/3				/					
1.1.21.1	COMTRK-80040	3/1R	P	P	P	/					
	COMTRK-80050	3/1R	P	P	P	/					
1.1.21.2	COMTRK-8004Z	3/3				/					
	COMTRK-8005Z	3/3				/					
1.1.22.1	COMTRK-8004AA	3/3				/					
	COMTRK-8005AA	3/3				/					
1.1.22.2	COMTRK-8004BB	3/3				/					
	COMTRK-8005BB	3/3				/					
1.1.23.1	COMTRK-8004P	3/1R	P	P	P	/					
	COMTRK-8005P	3/1R	P	P	P	/					
1.1.23.2	COMTRK-8004Q	3/1R	P	P	P	/					
	COMTRK-8005Q	3/1R	P	P	P	/					
1.1.3	COMTRK-8004S	3/3				/					
	COMTRK-8005S	3/3				/					
1.1.4	COMTRK-8004T	3/3				/					
	COMTRK-8005T	3/3				/					
1.1.5	COMTRK-8004B	2/1R	P	P	P	/					
	COMTRK-8005B	2/1R	P	P	P	/					
1.1.6	COMTRK-8004U	3/3				/					
	COMTRK-8005U	3/3				/					
1.1.7	COMTRK-8004R	3/2R	P	P	P	/					
	COMTRK-8005R	3/2R	P	P	P	/					
1.1.8	COMTRK-8004F	2/2				/					
	COMTRK-8005F	2/2				/					
1.1.9	COMTRK-8004G	2/2				/					
	COMTRK-8005G	2/2				/					
1.2.1	COMTRK-8001E	3/2R	P	P	P	/			1		X
	COMTRK-8002E	3/2R	P	P	P	/			1		X

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						
NASA	IOA	CRIT	SCREENS			CRIT	SCREENS			OTHER	ISSUE
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C	(SEE LEGEND CODE)	
1.2.1	COMTRK-B003E	3/2R	P	P	P	/					X
1.2.10	COMTRK-B001M	3/3				/					X
	COMTRK-B002M	3/3				/					X
	COMTRK-B003M	3/2R	P	P	P	/					X
1.2.11	COMTRK-B001N	3/3				/					X
	COMTRK-B002N	3/3				/					X
	COMTRK-B003N	3/2R	P	P	P	/					X
1.2.12	COMTRK-B001O	3/3				/					X
	COMTRK-B002O	3/3				/					X
	COMTRK-B003O	3/2R	P	P	P	/					X
1.2.13	COMTRK-B001P	3/3				/					X
	COMTRK-B002P	3/3				/					X
	COMTRK-B003P	3/2R	P	P	P	/					X
1.2.14	COMTRK-B001Q	3/3				/					X
	COMTRK-B002Q	3/3				/					X
	COMTRK-B003Q	3/2R	P	P	P	/					X
1.2.15	COMTRK-B001R	3/3				/					X
	COMTRK-B002R	3/3				/					X
	COMTRK-B003R	3/2R	P	P	P	/					X
1.2.16	COMTRK-B001S	3/3				/					X
	COMTRK-B002S	3/3				/					X
	COMTRK-B003S	3/2R	P	P	P	/					X
1.2.17	COMTRK-B001T	3/3				/					X
	COMTRK-B002T	3/3				/					X
	COMTRK-B003T	3/2R	P	P	P	/					X
1.2.18	COMTRK-B001A	2/2				2/1R					X
	COMTRK-B002A	2/2				2/1R	P	P	P		X
	COMTRK-B003A	2/2				2/1R	P	P	P		X
1.2.19	COMTRK-B001U	3/3				/					X
	COMTRK-B002U	3/3				/					X
	COMTRK-B003U	3/2R	P	P	P	/					X
1.2.2	COMTRK-B001	2/2				2/1R					X
	COMTRK-B002	2/2				2/1R	P	P	P		X
	COMTRK-B003	2/2				2/1R	P	P	P		X
1.2.20	COMTRK-B001V	3/3				/					X
	COMTRK-B002V	3/3				/					X
	COMTRK-B003V	3/2R	P	P	P	/					X
1.2.21	COMTRK-B001B	2/2				2/1R					X
	COMTRK-B002B	2/2				2/1R	P	P	P		X
	COMTRK-B003B	2/2				2/1R	P	P	P		X
1.2.22	COMTRK-B001C	2/2				2/1R					X
	COMTRK-B002C	2/2				2/1R	P	P	P		X
	COMTRK-B003C	2/2				2/1R	P	P	P		X
1.2.23	COMTRK-B001D	2/2				2/1R					X
	COMTRK-B002D	2/2				2/1R	P	P	P		X
	COMTRK-B003D	2/2				2/1R	P	P	P		X
1.2.3	COMTRK-B001F	3/3				/					X
	COMTRK-B002F	3/3				/					X
	COMTRK-B003F	3/2R	P	P	P	/					X
1.2.4	COMTRK-B001G	3/3				/					X

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *				
NASA FMEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C	CRIT HW/F	SCREENS A B C	OTHER (SEE LEGEND CODE)		ISSUE	
1.2.4	COMTRK-8002G	3/3		/			1		X
	COMTRK-8003G	3/2R	P P P	/			1		X
1.2.5	COMTRK-8001H	3/3		/			1		X
	COMTRK-8002H	3/3		/			1		X
	COMTRK-8003H	3/2R	P P P	/			1		X
1.2.6	COMTRK-8001I	3/3		/			1		X
	COMTRK-8002I	3/3		/			1		X
	COMTRK-8003I	3/2R	P P P	/			1		X
1.2.7	COMTRK-8001J	3/3		/			1		X
	COMTRK-8002J	3/3		/			1		X
	COMTRK-8003J	3/2R	P P P	/			1		X
1.2.8	COMTRK-8001K	3/3		/			1		X
	COMTRK-8002K	3/3		/			1		X
	COMTRK-8003K	3/2R	P P P	/			1		X
1.2.9	COMTRK-8001L	3/3		/			1		X
	COMTRK-8002L	3/3		/			1		X
	COMTRK-8003L	3/2R	P P P	/			1		X
2.1.1	COMTRK-8008	2/2		2/1R	P P P		1		X
	COMTRK-8009	2/2		2/1R	P P P		1		X
	COMTRK-8010	2/2		2/1R	P P P		1		X
	COMTRK-8011	2/2		2/1R	P P P		1		X
2.1.1.1	COMTRK-8024C	2/2		2/1R	P P P		1		X
2.1.2	COMTRK-8008A	2/2		2/1R	P P P		1		X
	COMTRK-8009A	2/2		2/1R	P P P		1		X
	COMTRK-8010A	2/2		2/1R	P P P		1		X
	COMTRK-8011A	2/2		2/1R	P P P		1		X
2.1.3.1	COMTRK-8008B	2/2		2/1R	P P P		1		X
	COMTRK-8009B	2/2		2/1R	P P P		1		X
	COMTRK-8010B	2/2		2/1R	P P P		1		X
	COMTRK-8011B	2/2		2/1R	P P P		1		X
2.1.3.2	COMTRK-8008D	3/3		/					
	COMTRK-8009D	2/2		2/1R	P P P				
	COMTRK-8010D	3/3		/					
	COMTRK-8011D	3/3		/					
2.1.4	COMTRK-8008L	3/1R	P P P	/					
	COMTRK-8009L	2/2		2/1R	P P P				
	COMTRK-8010L	3/1R	P P P	/					
	COMTRK-8011L	3/1R	P P P	/					
2.1.5	COMTRK-8008C	2/2		2/1R	P P P		1		X
	COMTRK-8009C	2/2		2/1R	P P P		1		X
	COMTRK-8010C	2/2		2/1R	P P P		1		X
	COMTRK-8011C	2/2		2/1R	P P P		1		X
2.1.6.1	COMTRK-8033	2/2		2/1R	P P P		1		X
	COMTRK-8035	2/2		2/1R	P P P		1		X
	COMTRK-8037	2/2		2/1R	P P P		1		X
	COMTRK-8039	2/2		2/1R	P P P		1		X
2.1.6.2	COMTRK-8034	2/2		2/1R	P P P		1		X
	COMTRK-8036	2/2		2/2	1R P P		1		X
	COMTRK-8038	2/2		2/1R	P P P		1		X
	COMTRK-8040	2/2		2/1R	P P P		1		X

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						
NASA FMEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			OTHER (SEE LEGEND CODE)	ISSUE
2.1.6.3	COMTRK-28383X	3/3				/					
	COMTRK-8033B	3/3				/					X
	COMTRK-8035B	3/3				/					X
	COMTRK-8037B	3/3				/					X
	COMTRK-8039B	3/3				/					
2.1.6.4	COMTRK-28384X	2/2				2/1R	P	P	P		X
	COMTRK-8033A	2/2				2/1R	P	P	P		X
	COMTRK-8035A	2/2				2/1R	P	P	P		X
	COMTRK-8037A	2/2				2/1R	P	P	P		X
	COMTRK-8039A	2/2				2/1R	P	P	P		X
2.1.7	COMTRK-8014	2/2				2/1R	P	P	P		X
	COMTRK-8015	2/2				2/1R	P	P	P		X
	COMTRK-8016	2/2				2/1R	P	P	P		X
	COMTRK-8017	2/2				2/1R	P	P	P		X
	COMTRK-8018	2/2				2/1R	P	P	P		X
	COMTRK-8019	2/2				2/1R	P	P	P		X
	COMTRK-8020	2/2				2/1R	P	P	P		X
	COMTRK-8021	2/2				2/1R	P	P	P		X
	COMTRK-8022	2/2				2/1R	P	P	P		X
	COMTRK-8023	2/2				2/1R	P	P	P		X
2.2.1	COMTRK-8024	2/2				2/1R	P	P	P		X
	COMTRK-8025	2/2				2/1R	P	P	P		X
	COMTRK-8008D	2/2				2/1R	P	P	P		X
	COMTRK-8009D	2/2				2/1R	P	P	P		X
	COMTRK-8010D	2/2				2/1R	P	P	P		X
2.2.2	COMTRK-8011D	2/2				2/1R	P	P	P		X
	COMTRK-8008E	2/2				2/1R	P	P	P		X
	COMTRK-8009E	2/2				2/1R	P	P	P		X
	COMTRK-8010E	2/2				2/1R	P	P	P		X
	COMTRK-8011E	2/2				2/1R	P	P	P		X
2.2.3.1	COMTRK-8008F	2/2				2/1R	P	P	P		X
	COMTRK-8009F	2/2				2/1R	P	P	P		X
	COMTRK-8010F	2/2				2/1R	P	P	P		X
	COMTRK-8011F	2/2				2/1R	P	P	P		X
2.2.3.2	COMTRK-8008P	3/3				/					
	COMTRK-8009P	2/2				2/1R	P	P	P		
	COMTRK-8010P	3/3				/					
	COMTRK-8011P	3/3				/					
2.2.4	COMTRK-8008M	3/1R	P	P	P	/					
	COMTRK-8009M	2/2				2/1R	P	P	P		
	COMTRK-8010M	3/1R	P	P	P	/					
	COMTRK-8011M	3/1R	P	P	P	/					
2.2.5	COMTRK-8008G	2/2				2/1R	P	P	P		X
	COMTRK-8009G	2/2				2/1R	P	P	P		X
	COMTRK-8010G	2/2				2/1R	P	P	P		X
	COMTRK-8011G	2/2				2/1R	P	P	P		X
2.2.6.1	COMTRK-8053	2/2				2/1R	P	P	P		
	COMTRK-8055	2/2				2/1R	P	P	P		
	COMTRK-8059	2/2				2/1R	P	P	P		
2.2.6.2	COMTRK-8050	3/3				/					

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						ISSUE
NASA FMEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			OTHER (SEE LEGEND CODE)	
2.2.6.2	COMTRK-8054	2/2				2/1R	P	P	P		
	COMTRK-8056	2/2				2/1R	P	P	P	1	X
	COMTRK-8058	2/2				2/1R	P	P	P		
	COMTRK-8060	2/2				2/1R	P	P	P	1	X
2.2.6.3	COMTRK-28399X	3/3				/					
	COMTRK-8053B	3/3				/					
	COMTRK-8055B	3/3				/					
	COMTRK-8057	3/3				/					
2.2.6.4	COMTRK-8059B	2/2				2/1R	P	P	P		
	COMTRK-28400X	2/2				2/1R	P	P	P	1	X
	COMTRK-8053A	2/2				2/1R	P	P	P		
	COMTRK-8055A	2/2				2/1R	P	P	P		
2.2.7	COMTRK-8059A	2/2				2/1R	P	P			
	COMTRK-8014A	2/2				2/1R	P	P	P	1	X
	COMTRK-8015A	2/2				2/1R	P	P	P	1	X
	COMTRK-8016A	2/2				2/1R	P	P	P	1	X
	COMTRK-8017A	2/2				2/1R	P	P	P	1	X
	COMTRK-8018A	2/2				2/1R	P	P	P	1	X
	COMTRK-8019A	2/2				2/1R	P	P	P	1	X
	COMTRK-8020A	2/2				2/1R	P	P	P	1	X
	COMTRK-8021A	2/2				2/1R	P	P	P	1	X
	COMTRK-8022A	2/2				2/1R	P	P	P	1	X
	COMTRK-8023A	2/2				2/1R	P	P	P	1	X
	COMTRK-8024A	2/2				2/1R	P	P	P	1	X
2.2.8.1	COMTRK-8025A	2/2				2/1R	P	P	P	1	X
	COMTRK-8050A	3/3				/					
	COMTRK-8054A	2/2				2/1R	P	P	P		
	COMTRK-8056A	2/2				2/1R	P	P	P	1	X
2.2.8.2	COMTRK-8058A	2/2				2/1R	P	P	P		
	COMTRK-8060A	2/2				2/1R	P	P	P	1	X
	COMTRK-8053C	3/3				/					
	COMTRK-8055C	3/3				/					
2.3.1	COMTRK-8057A	3/3				/					
	COMTRK-8059C	3/3				/					
	COMTRK-8008H	2/2				2/1R	P	P	P	1	X
	COMTRK-8009H	2/2				2/1R	P	P	P	1	X
2.3.2	COMTRK-8010H	2/2				2/1R	P	P	P	1	X
	COMTRK-8011H	2/2				2/1R	P	P	P	1	X
	COMTRK-8008I	2/2				2/1R	P	P	P	1	X
	COMTRK-8009I	2/2				2/1R	P	P	P	1	X
2.3.3.1	COMTRK-8010I	2/2				2/1R	P	P	P	1	X
	COMTRK-8011I	2/2				2/1R	P	P	P	1	X
	COMTRK-8008J	2/2				2/1R	P	P	P	1	X
	COMTRK-8009J	2/2				2/1R	P	P	P	1	X
2.3.3.2	COMTRK-8010J	2/2				2/1R	P	P	P	1	X
	COMTRK-8011J	2/2				2/1R	P	P	P	1	X
	COMTRK-8008Q	3/3				/					
	COMTRK-8009Q	2/2				2/1R	P	P	P		
	COMTRK-8010Q	3/3				/					
	COMTRK-8011Q	3/3				/					

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *							
NASA FMEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			OTHER (SEE LEGEND CODE)	ISSUE	
2.3.4	COMTRK-8008N	3/1R	P	P	P	/						
	COMTRK-8009N	2/2				2/1R	P	P	P			
	COMTRK-8010N	3/1R	P	P	P	/						
	COMTRK-8011N	3/1R	P	P	P	/						
2.3.5	COMTRK-8008K	2/2				2/1R	P	P	P	1	X	
	COMTRK-8009K	2/2				2/1R	P	P	P	1	X	
	COMTRK-8010K	2/2				2/1R	P	P	P	1	X	
	COMTRK-8011K	2/2				2/1R	P	P	P	1	X	
2.3.6.1	COMTRK-8045	2/2				/						
	COMTRK-8047	2/2				/						
2.3.6.2	COMTRK-8046	2/2				/						
	COMTRK-8048	2/2				/						
2.3.6.3	COMTRK-28389X	3/3				/						
	COMTRK-8045B	3/3				/						
	COMTRK-8047B	3/3				/						
2.3.6.4	COMTRK-28390X	2/2				2/1R	P	P	P	1	X	
	COMTRK-8045A	2/2				/						
	COMTRK-8047A	2/2				/						
2.3.7	COMTRK-8014B	2/2				2/1R	P	P	P	1	X	
	COMTRK-8015B	2/2				2/1R	P	P	P	1	X	
	COMTRK-8016B	2/2				2/1R	P	P	P	1	X	
	COMTRK-8017B	2/2				2/1R	P	P	P	1	X	
	COMTRK-8018B	2/2				2/1R	P	P	P	1	X	
	COMTRK-8019B	2/2				2/1R	P	P	P	1	X	
	COMTRK-8020B	2/2				2/1R	P	P	P	1	X	
	COMTRK-8021B	2/2				2/1R	P	P	P	1	X	
	COMTRK-8022B	2/2				2/1R	P	P	P	1	X	
	COMTRK-8023B	2/2				2/1R	P	P	P	1	X	
	COMTRK-8024B	2/2				2/1R	P	P	P	1	X	
	COMTRK-8025B	2/2				2/1R	P	P	P	1	X	
2.3.8.1	COMTRK-8046A	2/2				/						
	COMTRK-8048A	2/2				/						
2.3.8.2	COMTRK-8045C	3/3				/						
	COMTRK-8047C	3/3				/						
2.4.1.1	COMTRK-8014C	2/2				2/1R	P	P	P	1	X	
	COMTRK-8015C	2/2				2/1R	P	P	P	1	X	
	COMTRK-8016C	2/2				2/1R	P	P	P	1	X	
	COMTRK-8017C	2/2				2/1R	P	P	P	1	X	
	COMTRK-8019C	2/2				2/1R	P	P	P	1	X	
	COMTRK-8020C	2/2				2/1R	P	P	P	1	X	
	COMTRK-8021C	2/2				2/1R	P	P	P	1	X	
	COMTRK-8022C	2/2				2/1R	P	P	P	1	X	
	COMTRK-8023C	2/2				2/1R	P	P	P	1	X	
	COMTRK-8025C	2/2				2/1R	P	P	P	1	X	
2.4.1.2	COMTRK-8014D	2/2				2/1R	P	P	P	1	X	
	COMTRK-8015D	2/2				2/1R	P	P	P	1	X	
	COMTRK-8016D	2/2				2/1R	P	P	P	1	X	
	COMTRK-8017D	2/2				2/1R	P	P	P	1	X	
	COMTRK-8019D	2/2				2/1R	P	P	P	1	X	
	COMTRK-8020D	2/2				2/1R	P	P	P	1	X	

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						
NASA FNEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			OTHER (SEE LEGEND CODE)	ISSUE
2.4.1.2	COMTRK-8021D	2/2				2/1R	P	P	P	1	X
	COMTRK-8022D	2/2				2/1R	P	P	P	1	X
	COMTRK-8023D	2/2				2/1R	P	P	P	1	X
	COMTRK-8024D	2/2				2/1R	P	P	P	1	X
	COMTRK-8025D	2/2				2/1R	P	P	P	1	X
2.4.2.1	COMTRK-8014E	2/2				2/1R	P	P	P	1	X
	COMTRK-8015E	2/2				2/1R	P	P	P	1	X
	COMTRK-8016E	2/2				2/1R	P	P	P	1	X
	COMTRK-8017E	2/2				2/1R	P	P	P	1	X
	COMTRK-8019E	2/2				2/1R	P	P	P	1	X
	COMTRK-8020E	2/2				2/1R	P	P	P	1	X
	COMTRK-8021E	2/2				2/1R	P	P	P	1	X
	COMTRK-8022E	2/2				2/1R	P	P	P	1	X
	COMTRK-8023E	2/2				2/1R	P	P	P	1	X
	COMTRK-8024E	2/2				2/1R	P	P	P	1	X
	COMTRK-8025E	2/2				2/1R	P	P	P	1	X
	COMTRK-8014F	2/2				2/1R	P	P	P	1	X
	COMTRK-8015F	2/2				2/1R	P	P	P	1	X
	COMTRK-8016F	2/2				2/1R	P	P	P	1	X
	COMTRK-8017F	2/2				2/1R	P	P	P	1	X
2.4.2.2	COMTRK-8019F	2/2				2/1R	P	P	P	1	X
	COMTRK-8020F	2/2				2/1R	P	P	P	1	X
	COMTRK-8021F	2/2				2/1R	P	P	P	1	X
	COMTRK-8022F	2/2				2/1R	P	P	P	1	X
	COMTRK-8023F	2/2				2/1R	P	P	P	1	X
	COMTRK-8024F	2/2				2/1R	P	P	P	1	X
	COMTRK-8025F	2/2				2/1R	P	P	P	1	X
	COMTRK-8014G	2/2				2/1R	P	P	P	1	X
	COMTRK-8015G	2/2				2/1R	P	P	P	1	X
	COMTRK-8016G	2/2				2/1R	P	P	P	1	X
	COMTRK-8017G	2/2				2/1R	P	P	P	1	X
	COMTRK-8019G	2/2				2/1R	P	P	P	1	X
	COMTRK-8020G	2/2				2/1R	P	P	P	1	X
	COMTRK-8021G	2/2				2/1R	P	P	P	1	X
	COMTRK-8022G	2/2				2/1R	P	P	P	1	X
2.4.3	COMTRK-8023G	2/2				2/1R	P	P	P	1	X
	COMTRK-8024G	2/2				2/1R	P	P	P	1	X
	COMTRK-8025G	2/2				2/1R	P	P	P	1	X
	COMTRK-28377X	3/3				/					
	COMTRK-8015I	3/3				/					
	COMTRK-8018I	3/3				/					
	COMTRK-8021I	3/3				/					X
	COMTRK-28378X	2/2				2/1R	P	P	P	1	X
	COMTRK-8015H	2/2				2/1R	P	P	P	1	X
	COMTRK-8018H	2/2				2/1R	P	P	P	1	X
2.4.4.1	COMTRK-8021H	2/2				2/1R	P	P	P	1	X
	COMTRK-8024H	2/2				2/1R	P	P	P	1	X
	COMTRK-8006	3/3				/					
	COMTRK-8007	3/3				/					
	COMTRK-8006A	3/3				/					
3.1.1											
3.1.2											

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *				OTHER (SEE LEGEND CODE)	ISSUE
NASA FMEA NUMBER	IOA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			
3.1.2	COMTRK-8007A	3/3				/				
3.1.3.1	COMTRK-8006B	3/3				/				
	COMTRK-8007B	3/3				/				
3.1.3.2	COMTRK-8006C	3/3				/				
	COMTRK-8007C	3/3				/				
3.1.4	COMTRK-8006D	3/3				/				
	COMTRK-8007D	3/3				/				
3.1.5	COMTRK-8006E	3/3				/				
	COMTRK-8007E	3/3				/				
3.1.6.1	COMTRK-8029	3/3				/				
	COMTRK-8031	/				/				
3.1.6.2	COMTRK-8030	/				/				
3.1.6.3	COMTRK-283B1X	3/3				/				
	COMTRK-8029A	3/3				/				
	COMTRK-8031A	/				/				
3.1.6.4	COMTRK-283B2X	3/3				/				
	COMTRK-8029B	3/3				/				
	COMTRK-8031B	/				/				
3.1.7	COMTRK-8065	3/3				/				
	COMTRK-8066	3/3				/				
3.1.8	COMTRK-8065A	3/3				/				
	COMTRK-8066A	3/3				/				
3.2.1	COMTRK-8006F	3/3				/				
	COMTRK-8007F	3/3				/				
3.2.2	COMTRK-8006G	3/3				/				
	COMTRK-8007G	3/3				/				
3.2.2.1	COMTRK-8006H	3/3				/				
3.2.3.1	COMTRK-8006N	3/3				/				
	COMTRK-8007H	3/3				/				
3.2.3.2	COMTRK-8006I	3/3				/				
	COMTRK-8006O	3/3				/				
	COMTRK-8007I	3/3				/				
3.2.4	COMTRK-8006J	3/3				/				
	COMTRK-8006P	3/3				/				
	COMTRK-8007J	3/3				/				
3.2.5	COMTRK-8006K	3/3				/				
	COMTRK-8006Q	3/3				/				
	COMTRK-8007K	3/3				/				
3.2.6.1	COMTRK-8049	3/3				/				
	COMTRK-8051	3/3				/				
3.2.6.2	COMTRK-8052	3/3				/				
3.2.6.3	COMTRK-28396X	3/3				/				
	COMTRK-8049A	3/3				/				
	COMTRK-8051A	3/3				/				
3.2.6.4	COMTRK-28398X	3/3				/				
	COMTRK-8049B	3/3				/				
	COMTRK-8051B	3/3				/				
3.2.7	COMTRK-8065B	3/3				/				
	COMTRK-8066B	3/3				/				
3.2.8.1	COMTRK-8052A	3/3				/				

IDENTIFIERS		NASA			IDA RECOMMENDATIONS *				
NASA	IDA	CRIT	SCREENS			CRIT	SCREENS		
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C
								OTHER (SEE LEGEND CODE)	ISSUE
3.2.8.2	COMTRK-B049C	3/3				/			
	COMTRK-B051C	3/3				/			
3.2.9	COMTRK-B065C	3/3				/			
	COMTRK-B066C	3/3				/			
3.3.1	COMTRK-B006L	3/3				/			
	COMTRK-B007L	3/3				/			
3.3.2	COMTRK-B006M	3/3				/			
	COMTRK-B007M	3/3				/			
3.3.3.1	COMTRK-B007N	3/3				/			
3.3.3.2	COMTRK-B007O	3/3				/			
3.3.4	COMTRK-B007P	3/3				/			
3.3.5	COMTRK-B007Q	3/3				/			
3.3.6.1	COMTRK-B045D	3/3				/			
	COMTRK-B047D	3/3				/			
3.3.6.2	COMTRK-B046B	3/3				/			
	COMTRK-B048B	3/3				/			
3.3.6.3	COMTRK-28391X	3/3				/			
	COMTRK-B045E	3/3				/			
	COMTRK-B047E	3/3				/			
3.3.6.4	COMTRK-28392X	3/3				/			
	COMTRK-B045F	3/3				/			
	COMTRK-B047F	3/3				/			
3.3.7	COMTRK-B065D	3/3				/			
	COMTRK-B066D	3/3				/			
3.3.8.1	COMTRK-B046C	3/3				/			
	COMTRK-B048C	3/3				/			
3.3.8.2	COMTRK-B045G	3/3				/			
	COMTRK-B047G	3/3				/			
3.3.9	COMTRK-B065E	3/3				/			
	COMTRK-B066E	3/3				/			
3.5.1	COMTRK-B065F	3/3				/			
	COMTRK-B066F	3/3				/			
3.5.10	COMTRK-B065D	3/3				/			
	COMTRK-B066D	3/3				/			
3.5.2	COMTRK-B065G	3/3				/			
	COMTRK-B066G	3/3				/			
3.5.3	COMTRK-B065H	3/3				/			
	COMTRK-B066H	3/3				/			
3.5.4	COMTRK-B065I	3/3				/			
	COMTRK-B066I	3/3				/			
3.5.5	COMTRK-B065J	3/3				/			
	COMTRK-B066J	3/3				/			
3.5.6	COMTRK-B065K	3/3				/			
	COMTRK-B066K	3/3				/			
3.5.7	COMTRK-B065L	3/3				/			
	COMTRK-B066L	3/3				/			
3.5.8	COMTRK-B065M	3/3				/			
	COMTRK-B066M	3/3				/			
3.5.9	COMTRK-B065N	3/3				/			
	COMTRK-B066N	3/3				/			

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IDENTIFIERS		NASA			IDA RECOMMENDATIONS *						ISSUE
NASA FMEA NUMBER	IDA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			OTHER (SEE LEGEND CODE)	
3.6.6.2	COMTRK-B032	3/3				/					
4.1.1	COMTRK-B013	2/2				/					
4.1.2	COMTRK-B013A	2/2				/					
4.1.3.1	COMTRK-B013B	2/2				/					
4.1.3.2	COMTRK-B013D	3/3				/					
4.1.4	COMTRK-B013L	3/1R	P	P	P	/					
4.1.5	COMTRK-B013I	2/1R	P	P	P	/					
4.1.6.1	COMTRK-B043	2/2				/					
4.1.6.2	COMTRK-B044	2/2				/					
4.1.6.3	COMTRK-28387X	3/3				/					
	COMTRK-B043B	3/3				/					
4.1.6.4	COMTRK-28388X	2/2				3/2R	P	P	P	1	X
	COMTRK-B043A	2/2				/					
4.1.7	COMTRK-B027	2/1R	P	P	P	/					
4.2.1	COMTRK-B013C	2/2				/					
4.2.1.1	COMTRK-B018C	2/2				2/1R	P	P	P	1	X
4.2.1.2	COMTRK-B018D	2/2				2/1R	P	P	P	1	X
4.2.2	COMTRK-B013D	2/2				/					
4.2.2.1	COMTRK-B018E	2/2				2/1R	P	P	P	1	X
4.2.2.2	COMTRK-B018F	2/2				2/1R	P	P	P	1	X
4.2.3	COMTRK-B018G	2/2				2/1R	P	P	P	1	X
4.2.3.1	COMTRK-B013E	2/2				/					
4.2.3.2	COMTRK-B013P	3/3				/					
4.2.4	COMTRK-B013M	3/1R	P	P	P	/					
4.2.5	COMTRK-B013J	2/1R	P	P	P	/					
4.2.6.1	COMTRK-B063	2/2				/					
4.2.6.2	COMTRK-B064	2/2				/					
4.2.6.3	COMTRK-28401X	3/3				/					
	COMTRK-B063B	3/3				/					
	COMTRK-B063C	3/3				/					
4.2.6.4	COMTRK-28402X	2/2				3/2R	P	P	P	1	X
	COMTRK-B063A	2/2				/					
4.2.7	COMTRK-B027A	2/1R	P	P	P	/					
4.2.8.1	COMTRK-B064A	2/2				/					
4.3.1	COMTRK-B013F	2/2				/					
4.3.2	COMTRK-B013G	2/2				/					
4.3.3.1	COMTRK-B013H	2/2				/					
4.3.3.2	COMTRK-B013Q	3/3				/					
4.3.4	COMTRK-B013N	3/1R	P	P	P	/					
4.3.5	COMTRK-B013K	2/1R	P	P	P	/					
4.3.6.1	COMTRK-B045H	2/2				/					
	COMTRK-B047H	2/2				/					
4.3.6.2	COMTRK-B046D	2/2				/					
	COMTRK-B048D	2/2				/					
4.3.6.3	COMTRK-28393X	3/3				/					
	COMTRK-B045J	3/3				/					
	COMTRK-B047J	3/3				/					
4.3.6.4	COMTRK-28394X	2/2				3/2R	P	P	P	1	X
	COMTRK-B045I	2/2				/					
	COMTRK-B047I	2/2				/					

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *				
NASA	IOA	CRIT	SCREENS			CRIT	SCREENS		
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C
4.3.7	CONTRK-8027B	2/1R	P	P	P	/			
4.3.8.1	CONTRK-8046E	2/2				/			
	CONTRK-8048E	2/2				/			
4.3.8.2	CONTRK-8045K	3/3				/			
	CONTRK-8047K	3/3				/			
4.4.1.1	CONTRK-8026	2/1R	P	P	P	/			
	CONTRK-8028	2/1R				/			
4.4.1.2	CONTRK-8026A	2/1R	P	P	P	/			
	CONTRK-8028A	2/1R				/			
4.4.2.1	CONTRK-8026B	2/1R	P	P	P	/			
	CONTRK-8028B	2/1R				/			
4.4.2.2	CONTRK-8026C	2/1R	P	P	P	/			
	CONTRK-8028C	2/1R				/			
4.4.3	CONTRK-8026D	2/1R	P	P	P	/			
	CONTRK-8028D	2/1R				/			
4.4.4.1	CONTRK-28379X	3/3				/			
	CONTRK-8027E	3/3				/			
4.4.4.2	CONTRK-28380X	2/1R	P	P	P	3/2R			
	CONTRK-8027C	2/1R	P	P	P	/			
5.1.1	CONTRK-8012	2/2				/			
5.1.2	CONTRK-8012A	2/2				/			
5.1.3.1	CONTRK-8012B	2/2				/			
5.1.3.2	CONTRK-8012D	3/2R	P	P	P	/			
5.1.4	CONTRK-8012L	3/2R	P	P	P	/			
5.1.5	CONTRK-8012C	2/2				/			
5.1.6.1	CONTRK-8041	2/2				/			
5.1.6.2	CONTRK-8042	2/2				/			
5.1.6.3	CONTRK-28385X	3/3				/			
	CONTRK-8041B	3/3				/			
5.1.6.4	CONTRK-28386X	2/2				3/2R	P	P	P
	CONTRK-8041A	2/2				/			
5.2.1	CONTRK-8012D	2/2				/			
5.2.2	CONTRK-8012E	2/2				/			
5.2.3.1	CONTRK-8012F	2/2				/			
5.2.3.2	CONTRK-8012F	3/2R	P	P	P	/			
5.2.4	CONTRK-8012H	3/2R	P	P	P	/			
5.2.5	CONTRK-8012G	2/2				/			
5.2.6.1	CONTRK-8061	2/2				/			
5.2.6.2	CONTRK-8062	2/2				/			
5.2.6.3	CONTRK-28403X	3/3				/			
	CONTRK-8061B	3/3				/			
5.2.6.4	CONTRK-28404X	2/2				3/2R	P	P	P
	CONTRK-8061A	2/2				/			
5.2.7.1	CONTRK-8062A	2/2				/			
5.2.7.2	CONTRK-8061C	3/3				/			
5.3.1	CONTRK-8012H	2/2				/			
5.3.2	CONTRK-8012I	2/2				/			
5.3.3.1	CONTRK-8012J	2/2				/			
5.3.3.2	CONTRK-8012Q	3/2R	P	P	P	/			
5.3.4	CONTRK-8012N	3/2R	P	P	P	/			

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IDENTIFIERS		NASA			IDA RECOMMENDATIONS *						
NASA FMEA NUMBER	IDA ASSESSMENT NUMBER	CRIT HW/F	SCREENS A B C			CRIT HW/F	SCREENS A B C			OTHER (SEE LEGEND CODE)	ISSUE
5.3.5	COMTRK-8012K	2/2				/					
5.3.6.1	COMTRK-8045L	2/2				/					
	COMTRK-8047L	2/2				/					
5.3.6.2	COMTRK-8046F	2/2				/					
	COMTRK-8048F	2/2				/					
	COMTRK-8048B	2/2				/					
5.3.6.3	COMTRK-28395X	3/3				/					
	COMTRK-8045N	3/3				/					
	COMTRK-8045D	3/3				/					
	COMTRK-8047N	3/3				/					
5.3.6.4	COMTRK-28396X	2/2				3/2R	P	P	P	1	X
	COMTRK-8045M	2/2				/					
	COMTRK-8047M	2/2				/					
5.3.7.1	COMTRK-8046B	2/2				/					
5.3.7.2	COMTRK-8047D	3/3				/					
6.0.1	COMTRK-8092	2/1R	P	P	P	/					
	COMTRK-8094	2/1R	P	P	P	/					
6.0.2	COMTRK-8091	2/1R	P	P	P	/					
	COMTRK-8093	2/1R	P	P	P	/					
6.0.3	COMTRK-8091B	2/2				/					
	COMTRK-8093B	2/2				/					
6.0.4	COMTRK-8092B	2/2				/					
	COMTRK-8094B	2/2				/					
6.0.5	COMTRK-8092A	2/1R	P	P	P	/					
	COMTRK-8094A	2/1R	P	P	P	/					
6.0.6	COMTRK-8091A	2/1R	P	P	P	/					
	COMTRK-8093A	2/1R	P	P	P	/					
6.0.7	COMTRK-8091C	2/2				/					
	COMTRK-8093C	2/2				/					
6.0.8	COMTRK-8092C	3/3				/					
	COMTRK-8094C	3/3				/					
6PS-21201-1	COMTRK-1521	3/1R	P	P	P	/					
	COMTRK-1522	3/1R	P	P	P	/					
7.1.1	COMTRK-8067	3/1R	P	P	P	/					
	COMTRK-8068	3/1R				/					
7.1.10	COMTRK-8067I	3/1R	P	P	P	/					
	COMTRK-8068I	3/1R				/					
7.1.11	COMTRK-8067J	3/1R	P	P	P	/					
	COMTRK-8068J	3/1R				/					
7.1.12	COMTRK-8067K	3/1R	P	P	P	/					
	COMTRK-8068K	3/1R				/					
7.1.13	COMTRK-8067L	3/1R	P	P	P	/					
	COMTRK-8068L	3/1R				/					
7.1.14	COMTRK-8067M	3/3				/					
	COMTRK-8068M	3/3				/					
7.1.15	COMTRK-8067N	3/3				/					
	COMTRK-8068N	3/3				/					
7.1.2	COMTRK-8067A	3/1R	P	P	P	/					
	COMTRK-8068A	3/1R				/					
7.1.3	COMTRK-8067B	3/1R	P	P	P	/					

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IDENTIFIERS		NASA			IOA RECOMMENDATIONS *						
NASA	IOA	CRIT	SCREENS			CRIT	SCREENS			OTHER	ISSUE
FMEA NUMBER	ASSESSMENT NUMBER	HW/F	A	B	C	HW/F	A	B	C	(SEE LEGEND CODE)	
7.1.3	COMTRK-8068B	3/1R				/					
7.1.4	COMTRK-8067C	3/1R	P	P	P	/					
	COMTRK-8068C	3/1R				/					
7.1.5	COMTRK-8067D	3/1R	P	P	P	/					
	COMTRK-8068D	3/1R				/					
7.1.6	COMTRK-8067E	3/1R	P	P	P	/					
	COMTRK-8068E	3/1R				/					
7.1.7	COMTRK-8067F	3/1R	P	P	P	/					
	COMTRK-8068F	3/1R				/					
7.1.8	COMTRK-8067G	3/1R	P	P	P	/					
	COMTRK-8068G	3/1R				/					
7.1.9	COMTRK-8067H	3/1R	P	P	P	/					
	COMTRK-8068H	3/1R				/					
EMU-TV-1	COMTRK-10004	3/3				/					
EMU-TV-2	COMTRK-10005	3/3				/					
EMU-TV-3	COMTRK-10006	3/3				/					
EMU-TV-4A	COMTRK-10501	3/3				/					
EMU-TV-5	COMTRK-10001	3/3				/					
EMU-TV-6	COMTRK-10007	3/3				/					
NONE	COMTRK-10002	/				/				2	X
	COMTRK-10003	/				3/3				2	X
	COMTRK-1011	/				3/2R	P	NA	P	2	X
	COMTRK-1015	/				3/2R	P	NA	P	2	X
	COMTRK-1049	/				/				2	X
	COMTRK-11008	/				3/1R	P	P	P	2	X
	COMTRK-2002	/				/				2	X
	COMTRK-2007	/				/				2	X
	COMTRK-3002	/				3/2R	P	NA	P	2	X
	COMTRK-5011	/				/				2	X
WCCS BATTERY	COMTRK-9591	3/3				/					
WCCS CREW REMOTE/AUD	COMTRK-9091	3/3				/					

